



# STATE OF ARKANSAS



## Arkansas Natural Resources Commission and Arkansas Department of Health

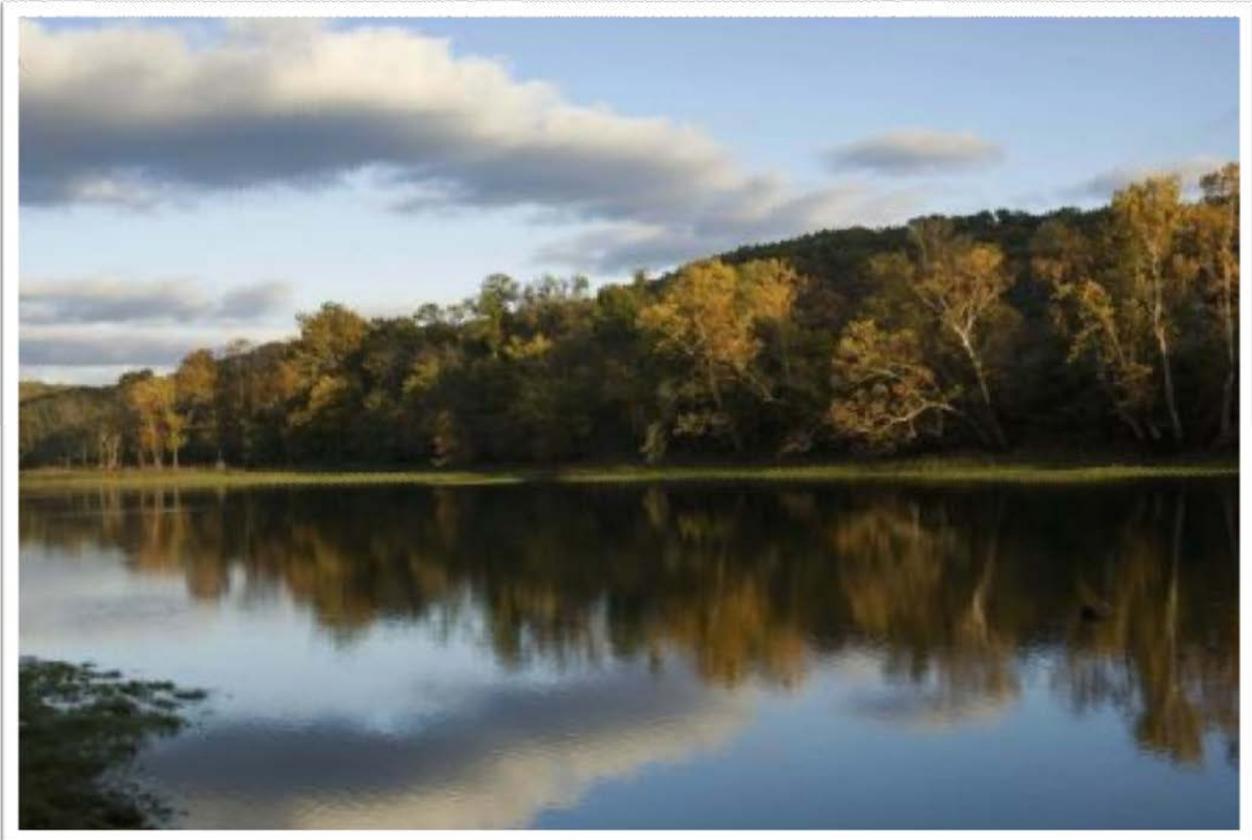


### SAFE DRINKING WATER FUND & STATE REVOLVING LOAN FUND PROGRAM



## SFY2018 ANNUAL REPORT (July 1, 2017 - June 30, 2018)

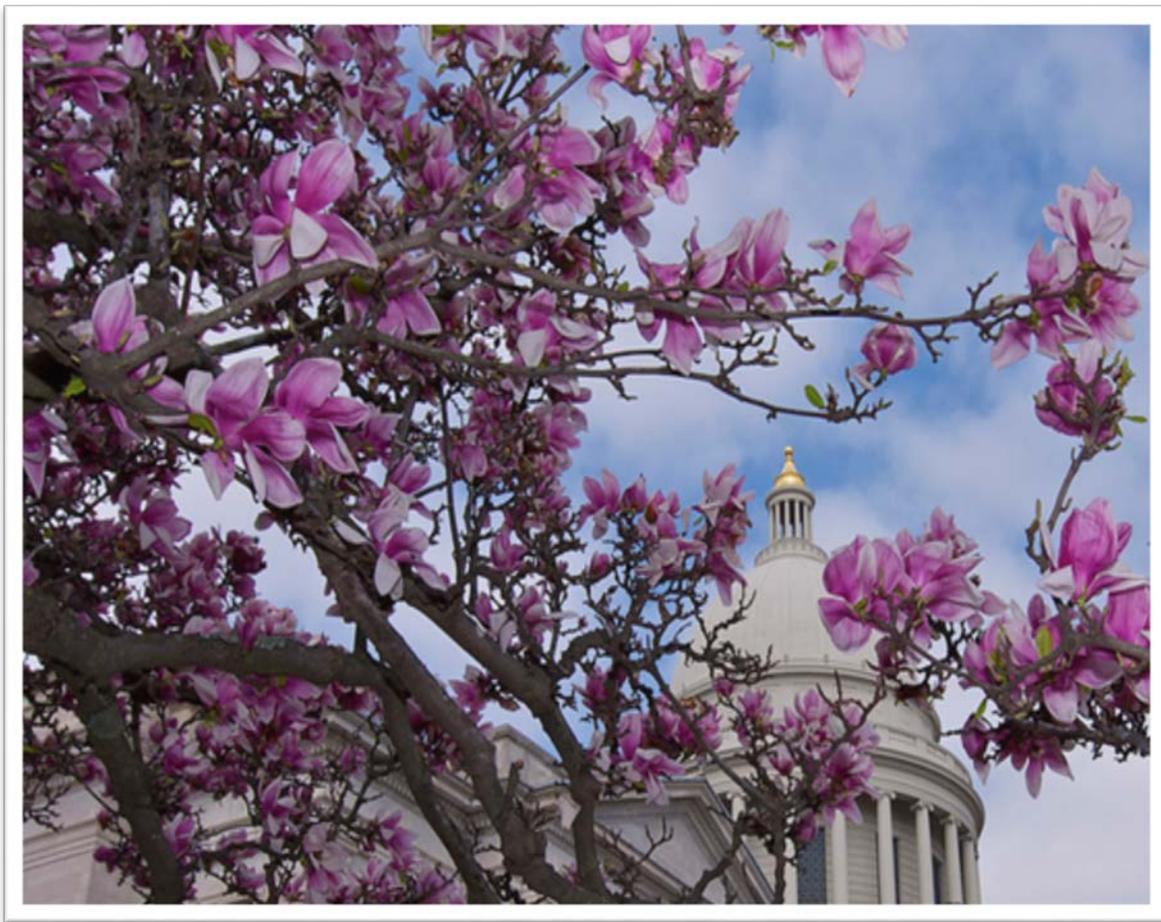
*Submitted to EPA October 1, 2018*



## Table of Contents

List of Abbreviations .....	4
I. Introduction .....	5
II. Projects and Available Assistance.....	6
III. GOALS.....	6
A. PROGRESS TOWARD SHORT-TERM GOALS .....	6
B. PROGRESS TOWARD LONG-TERM GOALS.....	8
C. PROGRESS TOWARD ENVIRONMENTAL RESULT GOALS.....	10
IV. Sources and Uses of Funds.....	11
A. Sources of Drinking Water State Revolving Funding.....	11
1. Capitalization Grants .....	11
2. State Match .....	11
3. Leveraging of the Drinking Water State Revolving Fund.....	11
4. Cash Draw Ratio Proportionality .....	11
5. Principal Loan Repayments & Interest Earnings .....	12
6. Financing Fees .....	12
B. Uses of Drinking Water State Revolving Funds.....	12
1. Loan Assistance Status .....	12
2. Binding Commitments.....	12
3. Projects Bypassed.....	12
4. Small Systems.....	12
5. Disadvantaged Community Systems .....	13
6. Set-Aside Activity.....	13
C. FINANCIAL SUMMARY.....	13
1. Status of Loans .....	13
2. Loan Disbursements.....	13
3. Set-Aside Disbursements.....	14
4. Annual Repayment/Aging of Accounts .....	14
5. Loan Portfolio Analysis .....	14
6. Investments.....	14
7. Environmental Results.....	15
8. Transfer .....	15
D. COMPLIANCE WITH OPERATING AGREEMENT AND GRANT CONDITIONS .....	15
1. Federal Payment Schedule .....	15
2. Deposit State Matching Funds .....	15
3. Submit Biennial Report and Annual Audit.....	16
4. Assure Borrowers Have a Dedicated Source of Repayment .....	16
5. Use Funds in Timely and Expeditious Manner .....	16
6. Ensure Recipient Compliance with Applicable Federal Cross-Cutting Authorities .....	16
7. Fair Share Objectives (MBE – DBE).....	16
8. Conduct Environmental Reviews.....	17
V. Appendix A – Program Charts.....	18
Chart 1 – Sources and Uses.....	19
Chart 2 – Loan Closings .....	20
Chart 3 – Comparison of Grant Payments and Binding Commitments.....	21
Chart 4 – DWSRF Set-Asides (federal funds drawn).....	22
Chart 5 – State Match.....	23
Chart 6 – Loan Disbursements by Project.....	24
Chart 7 – Additional Subsidization by Cap Grant .....	28
VI. Appendix B.....	31
Appendix B-1 – Statement of Net Position .....	32

Appendix B-2 – Revenues, Expenses & Changes in Net Position .....	33
Appendix B-3 – Statement of Cash Flows .....	34
Appendix B-4 – Pace Calculations – Financial Indicators .....	35
Appendix B-5 – Capacity Analysis Bond Issuance.....	36
VII. Appendix C (Arkansas Department of Health).....	48
ADH Table of Contents .....	50
I. INTRODUCTION.....	51
II. STATE PROGRAM MANAGEMENT SET-ASIDE .....	52
III. SMALL SYSTEM TECHNICAL ASSISTANCE .....	55
IV. LOCAL ASSISTANCE AND OTHER STATE PROGRAMS SET-ASIDE.....	57
ADH - ATTACHMENT A .....	64
Expenditure Summary .....	65
Position Effort Funding Summary (need updated chart) .....	68
Set-Aside Summary.....	71
Salary Distribution .....	72
ADH - ATTACHMENT B.....	74
Travel Reimbursements Summary.....	75



## **List of Abbreviations**

ADFA	Arkansas Development Finance Authority
ADH	Arkansas Department of Health/Division of Engineering
ANRC	Arkansas Natural Resources Commission
DWSRF	Drinking Water State Revolving Loan Fund - also known as SDWF
EPA	Environmental Protection Agency
IUP	Intended Use Plan (for the SRF federal capitalization grant)
PWSSP	Public Water System Supervision Program (State)
SDWF	Safe Drinking Water Fund - also known as DWSRF
SFY	State Fiscal Year (from July 1-June 30 of each year)
SRF	State Revolving Fund
SSAF	State Set-Aside Fund
SWAP	Source Water Assessment Program (State)
USGS	United States Geological Survey
WWAC	Water-Wastewater Advisory Committee

## **I. Introduction**

The State of Arkansas hereby submits its Annual Report for the Drinking Water State Revolving Fund (DWSRF) program for State Fiscal Year (SFY) 2018, July 1, 2017, through June 30, 2018. This report addresses operation of the DWSRF, describes the progress made toward the long and short-term program goals, and details the activities undertaken to reach the goals and objectives set forth in the 2018 Intended Use Plan (IUP).

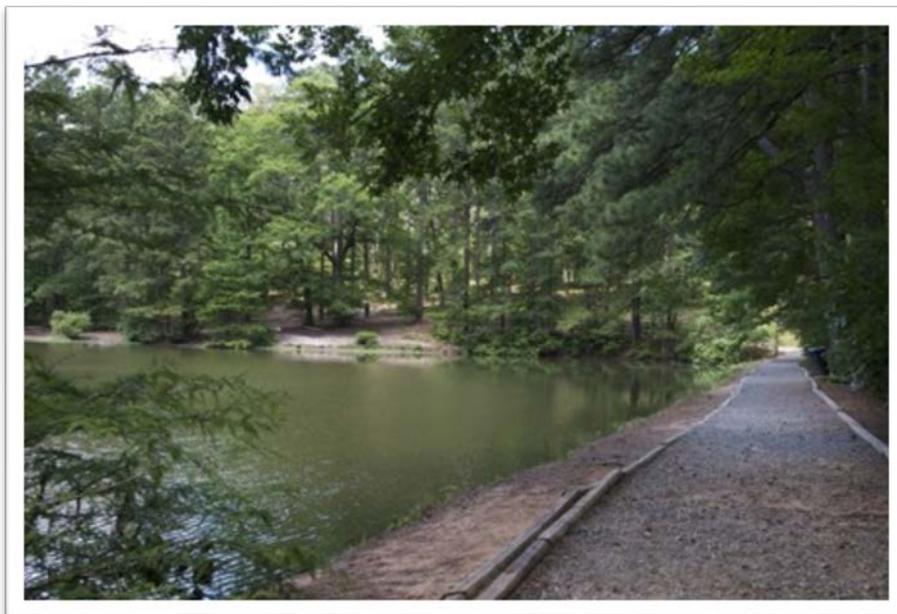
The State of Arkansas through Act 772 of 1997 established the Safe Drinking Water Fund (SDWF/DWSRF), to be administered by Arkansas Natural Resources Commission (ANRC). In April, 1996, ANRC Title XV established the rules governing the SDWF.

Responsibilities for the DWSRF program are divided among the ANRC, the Arkansas Department of Health/Division of Engineering (ADH), and the Arkansas Development Finance Authority (ADFA). Under the Interagency Memorandum of Understanding between ANRC and ADH, ANRC administers the loan fund and the administrative set-aside portion of the DWSRF. ADH, as primacy agent for the State's Public Water System Supervision Program (PWSS), has oversight of DWSRF, develops the comprehensive project priority list, and administers the remaining set-aside portions of the DWSRF. Fiscal responsibilities for the Program reside with ADFA.

Arkansas submitted its SFY 2018 IUP to the Environmental Protection Agency (EPA) in April 2017, and submitted an amended SFY 2018 IUP in November 2017.

The Intended Use Plan for SFY 2018 includes ANRC short-term and long-term goals that meet the four basic goals for the program. Those goals are:

- Goal 1 - to ensure public health protection
- Goal 2 - to comply with the Safe Drinking Water Act
- Goal 3 – to ensure affordable drinking water
- Goal 4 – to maintain the long-term financial health of the SDWF



## **II. Projects and Available Assistance**

The DWSRF program expected to disburse approximately \$12.8 million to projects in SFY 2018.

During SFY 2018 the program disbursed \$10 million to projects. Unfortunately, this is a little less than anticipated. Due to unforeseen delays, in loan closings and active projects estimated disbursements for this period fiscal year did not occur as expected.

In addition, set aside expenditures were estimated at approximately \$5.3 million (this includes the administration set aside) to provide assistance to communities as well as to provide administration funding for both the Water Division and the ADH. A total of \$4.084 million was expended in SFY 2018 for set asides, including the administration set aside ([Chart 4](#))

ANRC expended \$416,165 in federal funds to administer the program. Detailed information pertaining to set aside expenditures managed by ADH can be found in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

## **III. GOALS**

The Arkansas Drinking Water Program is an integrated and centralized program funded by the Drinking Water State Revolving Fund, Public Water System Supervision and state funding. The primary focus of the program is to achieve public health protection and rule compliance. All mandatory and voluntary program elements, (i.e. technical assistance, capacity development, source protection, rule implementation, enforcement, etc.) are coordinated to assure this end.

### **A. PROGRESS TOWARD SHORT-TERM GOALS**

- 1. Arkansas anticipated entering into sixteen (16) binding commitments for a total of \$43,949,813.***

Of the sixteen (16) projects listed on the 2018 IUP fundable list, six (6) projects signed one or more bond purchase agreements during SFY 2018 (Chart 1).

The ten (10) projects that failed to enter into a binding commitment prior to June 30, 2018 were unsuccessful in meeting required milestones, which prevented proceeding to the bond purchase agreement and loan closing:

Arkansas City closed on July 9, 2018, which just missed the goal for SFY 2018. The remaining projects are still working to complete the required milestones to proceed to signing a bond purchase agreement and loan closing.

- 2. Arkansas anticipates four (4) projects that include components that meet green project reserve requirements.***

Arkansas signed binding commitments for three (3) loans on two (2) projects that included green eligible components. Arkansas disbursed \$1.8 million for green eligible project cost ([Chart 2](#)).

- 3. Arkansas anticipates eleven (11) projects that will meet the add sub requirements and two (2) project that will receive Disadvantaged Funds in the form of principal forgiveness.**

Arkansas signed binding commitments for four (4) loans that are eligible for principal forgiveness and received principal forgiveness under the disadvantaged community program.

- 4. Complete set-aside work plans specifying funds from the capitalization grant. (Target Completion: Within 90 days of grant award)**

The 2017 Cap Grant was awarded on August 24, 2017. ADH submitted the work plan set asides (excluding administration) to EPA Region 6 in October 2017.

- 5. Arkansas ADH will continue to utilize the State Program Management set-aside to a portion of the implementation of the State Public Water Supply Supervision Program plan effort. This will include activities in this fiscal year such as: review and approval of 200 (goal) plans and specifications, logging and tracking of 1400 (goal) plan submissions, 250 (goal) sanitary surveys, technical assistance to Public Water System Supervision in a variety of ways, and other implementation activities.**

Progress toward achieving this goal is detailed in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

- 6. Arkansas will continue to screen projects using the Project Priority System to assure the Safe Drinking Water Acts overall goals are given priority in the DWSRF program. The Goal for this fiscal year is to have at least 30 projects on the Project Priority List.**

The ADH is responsible for developing the Priority System. They have developed a system that includes factors for projects that:

- a) address the most serious risk to human health,
- b) are necessary to ensure compliance with the requirements of the Safe Drinking Water Act, and
- c) assist systems most in need on a per household basis according to State affordability criteria.

The Priority System Questionnaire is sent to each Public Water System (PWS) in the state annually. The questionnaire describes the Priority System used by the Drinking Water State Revolving Fund program and lists the point values assigned to each category in the Priority System. The ADH sends the questionnaire to the Public Water Systems so they can add new projects to the Priority List. The ADH evaluates the questionnaires that are returned and assigns point values to the various categories. A project's total points are used to determine the project's ranking. The more points that a project receives, the higher it is placed on the priority list. The new projects are added to the projects which were not funded from the previous Priority List, and a new Priority List is assembled.

The only way a project can be placed on the Priority List is by an entity submitting a questionnaire for the project. Since submitting the questionnaire is a voluntary task, only projects that expect to be funded by the Drinking Water State Revolving Fund program are listed on the Priority List. Once the ADH prepares the Priority List, it is the Water Division's responsibility to create a Fundable List from the Priority List. The amended SFY 2018 IUP included 69 projects on the priority list.

- 7. The Division will apply for the federal cap grant funds in the first year that they are appropriated.**

Arkansas applied for the FFY 2017 Cap grant within the first year and it was awarded on 8/24/2017. Furthermore, the FFY 2018 Cap grant application was submitted within the first year and it awarded on 9/5/18.

- 8. Arkansas will continue to implement the State capacity development program strategy at no cost to entities. A vital element of this program is the technical assistance contracts provided under the Small System Technical Assistance and/or Local Assistance Set-aside. These were restructured slightly to focus more on direct assistance to the systems. SFY 2018 goals for these contracts are 1500 hours of on-site technical assistance including AWOP activities. Arkansas Department of Health also has a contract to work with small systems, which is providing infrastructure location by GPS coordinates and GIS mapping service. The goal for this contract is to map infrastructure for 45 small water systems.**

Progress toward achieving this goal is detailed in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

- 9. The program is considering a contract with Northbridge to help with marketing and streamlining the processes for both CWRLF and DWSRF.**

Additional agency marketing strategy has included making personal visits to municipalities and utilities as well as telecommunications to prospective clients informing them the SRF program is a well-established and economical funding vehicle to utilize, resulting in cost savings for their customers. One of the common concerns heard from these communities is high volume water loss that resulted in ANRC implementing a lending drive to help these communities with replacement of their dilapidated water meters. This resulted in an increase of SRF applications to the Agency.

Exploring the needs and opinions of past and future borrowers was the goal of a focus group and symposium facilitated by the consulting group Northbridge, on September 26, 2018, with ANRC's WRD division management team in attendance. The information gathered will allow our division to better serve the municipal and government borrowing sector. The symposium is aimed primarily at past and future potential borrowers to the SRF program. The event was held in northwest Arkansas, an area with great potential for infrastructure finance opportunity.

## **B. PROGRESS TOWARD LONG-TERM GOALS**

Through their affiliation with the Water/Wastewater Advisory Committee (WWAC), the Division and the Arkansas Department of Health (ADH) continue to work together to address Safe Drinking Water Act compliance issues. The WWAC is a body composed of representatives from four State Agencies and United States Department Agriculture-Rural Development. It was established by the Governor to coordinate state and federal funding, provide technical feasibility and regulatory reviews. WWAC members work together in coordinating funding and extending water quality standards and compliance. This Committee also provides a forum to communicate the availability of Revolving Loan Funding to cities and communities.

**1. Maintain the fiscal integrity of the DWSRF and assure a continuous enhancement of the loan fund for future generations.**

The Drinking Water State Revolving Fund is managed on a day to day basis to assure that funds are available to make qualified loans. The Program undergoes an annual audit by independent auditors to further assure its integrity.

The two terms that the Division modifies when it makes loans to entities are the Lending Rate and the Repayment Period.

The State has other funding options to assist communities unable to meet Drinking Water State Revolving Fund loan requirements when necessary. Each prospective project undergoes a financial analysis to determine financial capability before a loan is granted.

**2. Maintain the fund in perpetuity by protecting the principal that has been and continues to be deposited into the DWSRF program.**

As required by EPA regulations to ensure perpetuity, principal repayments and interest are deposited into the Fund. The perpetuity of the program is represented in Appendix C.

The one percent (1%) financing fee is deposited outside the Fund to cover additional expenses. Arkansas Natural Resources Commission realizes these funds are restricted by the Drinking Water regulations and Arkansas Natural Resources Commission does and will continue to use these funds in compliance with those regulations.

**3. Provide entities with a source of long-term, low-interest financing that will allow them to protect their customers' health and comply with the Safe Drinking Water Act.**

Through ANRC's affiliation with the Water/Wastewater Advisory Committee (WWAC), the Division and ADH work together to address Safe Drinking Water Act compliance issues. The WWAC is a body composed of representatives from four State Agencies and United States Department Agriculture-Rural Development, and was established by the Governor of the State to coordinate state and federal funding, provide technical feasibility and regulatory reviews. WWAC members work together in coordinating funding and extending water quality standards and compliance. It also provides a forum to communicate the availability of RLF funding to cities and communities.

In SFY 2013 Arkansas made changes to how its Lending Rates are determined. The Lending Rate is composed of two parts: the interest rate and the servicing fee. The initial objective for Arkansas Natural Resources Commission is to establish a Lending Rate for Drinking Water State Revolving Fund loans at 80% of the current bond market's taxable or tax-exempt rate depending on whether the project qualifies for a taxable or tax-exempt rate.

- 1.5% for a ten (10) year repayment period
- 2.50% for a twenty (20) year repayment period
- 3.0% for a thirty (30) year repayment period.

**4. The Division will meet the growing demand for the DWSRF program by leveraging the Fund when the demand exceeds the current revenue streams.**

The Division did not leverage the program in SFY 2018. Instead, the focus was on marketing the program to increase fund utilization.

ANRC staff attended, presented, or staffed a booth at the following:

- **Hot Springs water/wastewater conference**
- **Arkansas Water Works & Water Environment Association Conference**
- **Arkansas Municipal League Convention**
- **Arkansas Rural Water Association meeting**
- **Arkansas Office of Rural Services Conference**
- **Arkansas Energy Performance Contracting Summit**
- **Arkansas Water and Wastewater Manager Association Annual Meeting**

During the SFY 2018, ANRC engaged in several SRF marketing opportunities such as water and wastewater conferences, association meetings, conventions, summits and conferences. These events allowed direct and personal presentations enabling ANRC to showcase the SRF program with the borrowing sector. ANRC marketing and management staff attended, presented, or operated an SRF informational booth during a minimum of at least nine different conferences. These various summits and association conferences allowed ANRC to strategically interact with potential borrowers including engineering firms, city officials, and utility decision-makers.

- 5. Arkansas will continue to implement the Public Water System Supervision Program in conformance with its Primacy commitments.**

Progress toward these goals is described in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

- 6. Arkansas will continue to implement the State source water assessment/protection program**

Progress toward these goals is described in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

- 7. Arkansas will continue to implement the State capacity development program strategy.**

Progress toward these goals is described in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

- 8. The Division will maximize the number of entities meeting the Safe Drinking Water Act requirements by combining the DWSRF program with other State and Federal funding programs.**

Arkansas continues to combine the Drinking Water State Revolving Fund program with other State and Federal funding programs when beneficial. Arkansas was able to fund seven (7) loans this year. None of these loans required co-funding with other programs to meet their needs.

- 9. Arkansas will make every effort to expend funds within two (2) years of cap grant award, continuing to expend all funds in an expeditious and timely manner.**

Currently ANRC has two (2) cap grants with funds unspent, the 2016 and 2017 Cap Grants. The 2016 Cap Grant was awarded on August 24, 2016, ANRC is working to expend the remaining funds as soon as possible. However, this is contingent upon the projects with principal forgiveness proceeding as expected and meeting project milestones. ANRC has every expectation to fully expend these funds within the two-year period.

## **C. PROGRESS TOWARD ENVIRONMENTAL RESULT GOALS**

Output 1 – Provide sixteen (16) loans to water systems.

Output 2 – Enter into binding commitments with thirteen (13) small systems and three (3) large systems during this fiscal year. The projects are identified in [Chart 4](#).

Of the sixteen (16) projects listed on the 2018 IUP fundable list, seven (7) loans were closed for six (6) projects during SFY 2018 (Chart 1). Of the seven (7) loans that closed, two (2) were to a large system and five (5) were to small systems.

The ten (10) projects that failed to enter into a binding commitment prior to June 30, 2018 were unsuccessful in meeting required milestones, which prevented proceeding to the bond purchase agreement and loan closing. Of these ten (10) projects, nine (9) were for small systems and one (1) was for a large system.

Arkansas City, a small system, closed on July 9, 2018, which just missed the goal for SFY 2018. The remaining projects are still working to complete the required milestones to proceed to signing a bond purchase agreement and loan closing.

Output 3 – Arkansas Department of Health also has a contract to work with small systems, which is providing infrastructure location by GPS coordinates and GIS mapping service. Goals for these contracts are 45 assessments, and 2400 on-site man-hours of effort. Other anticipated efforts include 2 eight-hour training courses, 24 one-hour group training sessions and three CPEs.

Progress toward output 3 is described in the Arkansas Department of Health Annual Report, attached as [Appendix C](#).

#### **IV. Sources and Uses of Funds**

##### **A. Sources of Drinking Water State Revolving Funding**

###### **1. Capitalization Grants**

EPA has awarded Arkansas a total of \$269,797.300 in federal capitalization grants through the 2017 cap grant, including the ARRA capitalization grant in the amount of \$24,485,000.

###### **2. State Match**

Total State Match required through SFY 2018 (2017 Cap Grant) is \$49,064,060, of which \$2,522,000 in state match, for the 2017 Cap Grant, was deposited during SFY18 ([Chart 5](#)).

###### **3. Leveraging of the Drinking Water State Revolving Fund**

The Drinking Water State Revolving Fund was leveraged for the first time in November 2011. Arkansas leverages periodically to increase the funds available for assistance. Arkansas did not leverage the Drinking Water program in SFY 2018.

###### **4. Cash Draw Ratio Proportionality**

Arkansas disburses 100% State Match prior to requesting federal funds. Once the State Match is fully disbursed, then Arkansas will draw 100 % federal funds. This is because Arkansas is prohibited from

disbursing State Match in any of the forms used for Additional Subsidization. As long as federal funds are required to be spent on Additional Subsidization, Arkansas will continue with this cash draw policy.

## **5. Principal Loan Repayments & Interest Earnings**

Drinking Water State Revolving Fund received a total of \$9,052,359 in principal loan repayments, \$2,915,325 in interest on outstanding loans; and \$1,513,717 in interest earnings on investments.

## **6. Financing Fees**

The Lending Rate is determined using a formula that starts with a published list of daily market interest rates for a series of maturity dates for General Obligation Bonds. Those rates are modified to take into account that the Drinking Water State Revolving Fund is a Revenue Bond program and then the series is converted to an average weighted value. That single rate is then multiplied by 80% to get the Lending Rate. The servicing fee is currently set at 1.0%; the interest rate is the difference between the Lending Rate and the servicing fee. The servicing fee is the same for all projects, so the interest rate changes as the Lending Rate changes. Due to the rising interest rates, on January 1, 2015, ANRC set the lending rates as follows:

- 1.5% for a ten (10) year repayment period
- 2.50% for a twenty (20) year repayment period
- 3.0% for a thirty (30) year repayment period.

## **B. Uses of Drinking Water State Revolving Funds**

Arkansas Natural Resources Commission used Drinking Water State Revolving Funds to make loan disbursements of \$9,999,726.67 to water projects under construction. Of this amount, Federal funds of \$5.8 million and State funds of \$4.1 million were disbursed to loan recipients.

### **1. Loan Assistance Status**

In this reporting period, Arkansas Natural Resources Commission closed seven (7) loans; see [Appendix A-3](#) for additional details.

### **2. Binding Commitments**

During the year binding commitments totaled \$6,772,353, which increased the adjusted cumulative total to \$281,406. Consequently, the percentage of actual binding commitments to required binding commitments decreased to 133% ([Chart 3](#)) by the end of the fiscal year. The Division has defined the Binding Commitment as the date the Bond Purchase Agreement (BPA) is signed by all parties.

### **3. Projects Bypassed**

Entities listed ahead of the projects funded in SFY 2018 were ineligible due to an inability to repay, elected a different loan source, or were not ready to proceed. ANRC has sufficient funds available; therefore a project that was bypassed may return and receive funding in the future.

### **4. Small Systems**

Under Section 1452(a)(2) of the 1996 Amendments to the Safe Drinking Water Act (SDWA), fifteen percent (15%) of state loan funds are to be available for loans to small water systems (population less than 10,000).

Five (5) of the six (6) loans closed were to entities that qualify as a small system. The cumulative amount of loans to small systems is \$81,808,433; which is 29% of total binding commitments ([Chart 3](#)).

## **5. Disadvantaged Community Systems**

The State's Drinking Water State Revolving Fund program for disadvantaged communities now provides additional subsidies for loans and also has a provision to extend the life of the loan from 20 to 30 years. Five (5) of the Seven (7) loans closed qualified as disadvantaged, of these one (1) loan has the extended term of 30 years. The cumulative amount of loans to disadvantaged systems is \$128,974,800; which is 47% of total binding commitments. ([Chart 2](#))

## **6. Set-Aside Activity**

The set-aside categories are managed by both the Arkansas Natural Resources Commission and the Arkansas Department of Health. The set-aside for administration is managed by the ANRC, the remaining set-asides are managed by the ADH for implementing the State Public Water System Supervision Program.

A total of \$416,165 in annual expenses was funded from the 4% set-aside for Drinking Water State Revolving Fund administration set aside during SFY 2018 ([Chart 4](#)). In addition, ADH expended \$3,667,951 in federal funds for program administration and other set-aside expenditures for the fiscal year ([Chart 4](#)). Total set aside federal expenditures for SFY 2018 totaled just over 4 million (Chart 4).

The annual report of the Arkansas Department of Health presents progress and expenditures for set-asides covering state program management, technical assistance, and local assistance/other state programs ([Appendix C](#)).

## **C. FINANCIAL SUMMARY**

The overall financial position and operation results of the Drinking Water State Revolving Fund continue to improve as indicated in the financial data in [Appendix B](#).

The accounting firm of Frost, PLLC Certified Public Accountants is conducting an independent audit of the Drinking Water State Revolving Fund for SFY 2018. GASB Statement No. 34 with its amendments, commonly referred to as the new reporting model, was implemented for year end June 30, 2002. Supplementary information, Management's Discussion and Analysis will be included in the report. An electronic copy of the audit will be provided to EPA when it becomes available.

### **1. Status of Loans**

As of June 30, 2018, the Drinking Water State Revolving Fund has funded a total of \$281,406,500 in binding commitments ([Chart 3](#)). Loans receivable, which constitute the major portion of Drinking Water State Revolving Fund assets, had a year-end balance of \$153,035,419 ([Appendix B-1](#)).

### **2. Loan Disbursements**

Arkansas disbursed a total of \$9,999,726 borrowers during this reporting period. Of the total disbursed, \$5,809,169 was in Federal funds. The cumulative amount disbursements for loans totals \$237,297,944, of which \$166,796,436 was disbursed in Federal funds

### 3. Set-Aside Disbursements

A total of \$416,165.31 was funded from the 4% set-aside for Drinking Water State Revolving Fund administration during SFY 2018 ([Chart 4](#)). ADH expended \$3,667,951.08 in federal funds for program administration and other set-aside expenditures for the fiscal year ([Chart 4](#) and [Appendix C](#)). Total set aside federal expenditures for SFY 2018 totaled just over \$4 million ([Chart 4](#)). Funds outside of the DWSRF are not included in this data.

### 4. Annual Repayment/Aging of Accounts

Approximately \$8,953,209 in principal was repaid in SFY 2018. ANRC had four (4) loan delinquencies in SFY 2018. Staff maintains regular contact with the delinquent entities to work toward making the loans current.

Entity	Delinquent Amt.	Due Date
East Prairie	8,891.00	Oct-17
East Prairie	8,891.00	Apr-18
East Prairie	1,481.27	May-18
East Prairie	1,481.27	Jun-18
Thornton	5,985.25	May-18
Thornton	5,985.25	Jun-18
Thornton ( <i>Construction Interest</i> )	13,984.38	Apr-17
Total	\$46,699.42	

### 5. Loan Portfolio Analysis

Arkansas conducts an annual review of its loan portfolio. Loans that are potentially weak are identified and tracked closely to ensure that conditions are not deteriorating. The assessment process measures the level of funding given to systems by credit quality category as measured by bond rating. Currently our loan portfolio is rated AAA.

### 6. Investments

During the year, investments were made by the Arkansas Development Finance Authority and consisted of excess account balances invested in governmental funds ([Appendix B](#)).

## **7. Environmental Results**

In accordance with “EPA’s Environmental Results under EPA Assistance Agreements, Order No. 5700.7”, which became effective on January 1, 2005, ADH describes the outcome of the output goals in [Appendix C](#).

## **8. Transfer**

In the SFY 2018 Arkansas Intended Use Plan, Arkansas reserved the authority to transfer up to thirty-three percent (33%) of the Drinking Water State Revolving Fund capitalization grant to the Clean Water State Revolving Fund allotment. These funds would have been transferred from Drinking Water construction to Clean Water construction and would not affect the total amount available for set-asides. Arkansas did not transfer funds during SFY 2018.

## **D. COMPLIANCE WITH OPERATING AGREEMENT AND GRANT CONDITIONS**

Arkansas revised its Operating Agreement for the Drinking Water State Revolving Fund and submitted it to EPA on October 13, 2010. Arkansas has met and continues to be in compliance with the following conditions as described in the grant conditions:

- **Establish state instrumentality and authority.**
- **Comply with applicable state laws and procedures.**
- **Review technical, financial, and managerial capacity of assistance recipients.**
- **Establish Drinking Water State Revolving Fund loan account, set-aside account, and administration account.**
- **Deposit all funds in appropriate accounts.**
- **Follow state accounting and auditing procedures.**
- **Require that Drinking Water State Revolving Fund loan recipient accounting and auditing procedures be in accordance with generally accepted accounting principles and OMB Super Circular (formerly Circular A-133).**
- **Submit Intended Use Plan and use all funds in accordance with the plan.**
- **Comply with enforceable requirements of the Act.**
- **Establish capacity development authority.**
- **Implement/maintain system to minimize risk of waste, fraud, abuse, and corrective action.**
- **Develop and submit project priority ranking system.**

### **1. Federal Payment Schedule**

Payments have been received from EPA’s payment system in accordance with the payment schedule included in the grant awards ([Chart 3](#)).

### **2. Deposit State Matching Funds**

Arkansas provided state match in the amount of \$2,522,000 in SFY 2018 ([Chart 5](#))

### 3. Submit Biennial Report and Annual Audit

Arkansas chose to submit an annual report to the Environmental Protection Agency rather than a biennial report. This report is submitted to satisfy this condition.

The SFY 2018 annual audit conducted by Frost, PLLC, is in progress. A copy of the audit will be provided to EPA when it becomes available.

### 4. Assure Borrowers Have a Dedicated Source of Repayment

Arkansas Natural Resources Commission staff conducts a credit review evaluation for all State Revolving Fund loan applicants. This evaluation determines whether or not an applicant has the ability to repay a loan. For all applicants, the expected revenue stream from user fees must be sufficient to repay the loan, pay operation and maintenance costs, and pay for other necessary expenses.

### 5. Use Funds in Timely and Expeditious Manner

Arkansas has binding commitments for 133% of all available loan funds through the FFY 2018 capitalization grant (FS986001-21). Public water systems with binding commitments are moving in an expeditious and timely manner to start construction. Arkansas Natural Resources Commission monitors construction progress through monthly on-site inspections to ensure that operations are initiated according to schedule and funds are drawn in a timely and expeditious manner.

### 6. Ensure Recipient Compliance with Applicable Federal Cross-Cutting Authorities

Arkansas and all of its assistance recipients have complied with all applicable federal cross-cutting authorities. The State applied the Good Faith Efforts in an attempt to achieve the negotiated fair share objectives.

### 7. Fair Share Objectives (MBE – DBE)

The State applied the six affirmative steps described in 40 CFR, Section 33.301, in an effort to achieve the negotiated fair share objective.

The fair share objective goals for MBE and WBE in SFY2018:

Type	MBE	WBE
Construction	14.70%	11.30%
Services	10.60%	23.40%
Supplies	4.50%	16.00%
Equipment	0.00%	2.30%

Federal Draws by quarter:

QTR		Cap Grant Amount*	MBE	%	WBE	%
1	Jul - Sept 2017	\$ 1,471,851.62	\$ 30,105.14	2.045%	\$ 13,944.54	0.947%
2	Oct - Dec 2017	1,317,898.00	0.00	0.000%	4,492.51	0.341%
3	Jan - Mar 2018	1,492,436.00	0.00	0.000%	31,500.00	2.111%
4	Apr - Jun 2018	1,526,984.00	0.00	0.000%	1,654.35	0.108%
<b>Total</b>		<b>* \$5,809,169.62</b>	<b>\$ 30,105.14</b>	<b>0.518%</b>	<b>\$ 51,591.40</b>	<b>0.888%</b>

Documentation to support the good faith efforts are closely reviewed by the Division DBE Coordinator. All construction project bid packages as well as procurement of professional services, supplies and equipment purchases are closely monitored to determine if the affirmative steps were followed. These documents are maintained in the Division's Environmental Specialist's files or the project file maintained by the project administrator.

**8. Conduct Environmental Reviews**

The public water system projects receiving assistance during SFY 2018 were reviewed and approved using the state's environmental review procedures. The following table shows the environmental reviews that were conducted and the results of each review.

ENTITY	RESULT
Huttig (L & F)	FONSI
Old Bella Vista POA (F)	FONSI
CAW #3 (L)	CE
CAW #4 (L)	CE
Marshall (F)	CE
Stamps (F)	CE

**V. Appendix A - Program Charts**

**Chart 1 – Sources and Uses**

<b><u>SOURCES OF FUNDS</u></b>	
Beginning Balance (06/30/2017)	83,376,690.24
<b><i>State Fiscal Year 2018</i></b>	
Federal Grant FFY 2017	12,610,000.00
State Match paid in SFY 2018 <i>(FFY17 Cap Grant)</i>	2,522,000.00
2016 Federal Cap Grant Balance <i>(Construction)</i>	6,294,707.76
2017 Federal Cap Grant Balance <i>(Construction)</i>	8,600,900.00
Principal Repayments	9,052,359.00
Interest on Investments	1,513,717.00
Interest on Loans	2,915,325.00
<b>Sub Total</b>	<b>\$ 43,509,008.76</b>
<b>Total Sources of Funds</b>	<b>\$ 126,885,699.00</b>
<b><u>USES OF FUNDS</u></b>	
<b><i>DWSRF Loan Commitments</i></b>	
ANRC Approved Loans <i>(not closed)</i>	19,420,000.00
ANRC Approved Loans <i>(closed, undisbursed funds)</i>	25,898,593.33
<b>Sub Total</b>	<b>\$ 45,318,593.33</b>
<b><i>DWSRF Set-Aside Programs</i></b>	
Administration	416,165.31
Small	287,993.96
State	1,206,110.83
Wellhead	673,818.42
Capacity Development Program (CD)	1,500,027.87
<b>Sub Total</b>	<b>\$ 4,084,116.39</b>
<b><i>Debt Service Obligations</i></b>	
Leveraged Bond Principal	1,765,000.00
Leveraged Bond Interest	900,738.00
<b>Sub Total</b>	<b>\$ 2,665,738.00</b>
<b>Total Uses of Funds</b>	<b>\$ 52,068,447.72</b>
<b>Available Funds</b>	<b>\$ 74,817,251.28</b>
<i>Fees are not deposited into the Fund; therefore, based on EPA guidance they are not included in the Sources and Uses for the Fund</i>	

## Chart 2 – Loan Closings

NO.	Project Name Communities Served	Project Description	Project Number	Loan Number	Bond Purchase Date (B/C Date)	Loan Closing Date	Loan Closing Amount	Additional Subsidy	*Green Project Reserve	Estimated Construction Completion Date	Estimated Disbursement Cut-Off Date	Estimated Loan Maturity Date	Combined Interest Rate	Term	Population Served (Project)	Categorical Exclusion or FONSI	**Small Systems (Population < 10,000)	Disadvantaged Community	
1	Huttig (L)	Replace Water Line, repair or replacement of well	004-024	01079	07/18/17	07/18/17	525,000	0	525,000	09/01/18	04/15/20	04/15/40	2.50%	20	777	FONSI	525,000	0	
2	Huttig (F)	Replace Water Line	003-856	01080	07/18/17	07/18/17	1,575,000	1,575,000	1,575,000	09/01/18	04/15/20	N/A	2.50%	20	777	FONSI	1,575,000	1,575,000	
3	Old Bella Vista POA (F)	Replacement of aged water mains in order to conform to ADH requirements and to reduce maintenance and water loss costs	004-012	01063	09/18/17	10/04/17	500,000	500,000	0	(A) 05/24/18	10/15/19	N/A	0.00%	0	130	CE		500,000	
4	CAW #3 (L) - Jack Wilson WTP	Jack Wilson WTP - pump station motor replacement, electrical upgrades & building renovation.	004-021	01076	10/25/17	10/25/17	5,000,000	0	0	06/15/19	04/15/21	04/15/41	2.50%	20	313,588	CE	0	0	
5	CAW #4 (L) - Ozark Point	Ozark Point - structural rehab of & improvements to flocculation & sedimentation basins, clear wells, filter pipe gallery and backwash/wastewater system.	004-022	01077		05/15/18	2,500,000	0	0	06/15/21	04/15/24	04/15/23	1.50%	10	313,588	CE	0	0	
6	Marshall (F)	Rehabilitate and/or replace existing water lines to mitigate water loss in the Marshall Public Water System.	004-011	01062	06/01/18	05/22/18	2,000,000	2,000,000	0	07/18/19	04/15/20	04/15/40	2.50%	20	2,760	CE	2,000,000	2,000,000	
7	Stamps (F)	Rehabilitate and/or replace existing water lines to mitigate water loss in the Marshall Public Water System.	004-025	01081	12/05/17	12/05/17	2,581,633	2,581,633	2,581,633	12/18/18	04/15/20	N/A	2.50%	20	2,268	CE	2,581,633	2,581,633	
N/A	Jacksonville	Relinquish unexpended funds	Mar-1910	00798-DWSRF-	04/16/18	10/20/11	(7,909,280)	0	0	(A) 06/08/16	N/A	10/15/26	N/A	N/A	28,518	CE	0	0	
<b>SECTION 1452 LOANS CLOSED SFY 2018 TOTAL</b>							<b>\$ 6,772,353</b>	<b>\$ 6,656,633</b>	<b>\$ 4,681,633</b>						<b>662,406</b>		<b>\$ 6,681,633</b>	<b>\$ 6,656,633</b>	
<b>TOTAL CUM SECTION 1452 LOANS (Binding Commitments through 6/30/17)</b>							<b>\$274,634,147</b>	<b>\$21,626,554</b>										<b>\$ 75,126,800</b>	<b>\$ 125,824,800</b>
<b>TOTAL CUM SECTION 1452 LOANS CLOSED / BINDING COMMITMENTS</b>							<b>\$ 281,406,500</b>	<b>\$ 28,283,187</b>										<b>\$ 81,808,433</b>	<b>\$ 132,481,433</b>

\* The green project reserve meets the Water Efficiency category.

Percentage of Binding Commitments:

29%

47%

\*\*Small systems are defined as systems with population of 10,000 or less  
# Deferred Loan, first prmt 4/15/21 or will be rolled into construction loan funding.

**Chart 3 – Comparison of Grant Payments and Binding Commitments**

Dates	SFY	Qtr	SFY	FFY	State Match	Cumulative State Match	Qtrly Grant Payment - All Grants			Cum. Grant Payment - All Grants			Binding Commit. Required	Cum. Bind. Commit. Required	Binding Commit. Actual	Cum. Bind. Commit. Actual	% Actual/ Required
							Total Payment	Set-Asides	Loans	Total Payment	Set-Asides	Loans					
Jul - Sep 14	2015	1	SFY15 Q1	FFY14 Q4	637,150	38,534,561	3,185,750	923,868	2,261,882	192,672,804	52,655,263	140,017,543	0	166,955,974		247,722,347	148%
Oct - Dec 14		2	SFY15 Q2	FFY15 Q1	676,700	39,211,261	3,383,500	981,215	2,402,285	196,056,304	53,636,478	142,419,828	2,899,033	169,855,007	5,331,800	253,054,147	149%
Jan - Mar 15		3	SFY15 Q3	FFY15 Q2	676,700	39,887,961	3,383,500	981,215	2,402,285	199,439,804	54,617,693	144,822,113	2,899,032	172,754,039		253,054,147	146%
Apr - Jun 15		4	SFY15 Q4	FFY15 Q3	676,700	40,564,661	3,383,500	981,215	2,402,285	202,823,304	55,598,908	147,224,398	2,899,032	175,653,071	5,200,000	258,254,147	147%
Jul - Sep 15	2016	1	SFY16 Q1	FFY15 Q4	676,700	41,241,361	3,383,500	981,215	2,402,285	206,206,804	56,580,123	149,626,683	2,899,032	178,552,103	3,200,000	261,454,147	146%
Oct - Dec 15		2	SFY16 Q2	FFY16 Q1	672,250	41,913,611	3,361,250	974,763	2,386,488	209,568,054	57,554,886	152,013,171	3,078,985	181,631,088	800,000	262,254,147	144%
Jan - Mar 16		3	SFY16 Q3	FFY16 Q2	672,250	42,585,861	3,361,250	974,763	2,386,488	212,929,304	58,529,649	154,399,659	3,078,985	184,710,073		262,254,147	142%
Apr - Jun 16		4	SFY16 Q4	FFY16 Q3	672,250	43,258,111	3,361,250	974,763	2,386,488	216,290,554	59,504,412	156,786,147	3,078,985	187,789,058		262,254,147	140%
Jul - Sep 16	2017	1	SFY17 Q1	FFY16 Q4	672,250	43,930,361	3,361,250	974,763	2,386,488	219,651,804	60,479,175	159,172,635	3,078,985	190,868,043	5,800,000	268,054,147	140%
Oct - Dec 16		2	SFY17 Q2	FFY17 Q1	635,950	44,566,311	3,179,750	1,102,470	2,077,280	222,831,554	61,581,645	161,249,915	3,058,738	193,926,780		268,054,147	138%
Jan - Mar 17		3	SFY17 Q3	FFY17 Q2	635,950	45,202,261	3,179,750	1,102,470	2,077,280	226,011,304	62,684,115	163,327,195	3,058,738	196,985,518		268,054,147	136%
Apr - Jun 17		4	SFY17 Q4	FFY17 Q3	635,950	45,838,211	3,179,750	1,102,470	2,077,280	229,191,054	63,786,585	165,404,475	3,058,738	200,044,255	6,580,000	274,634,147	137%
Jul - Sep 17	2018	1	SFY18 Q1	FFY17 Q4	639,950	46,474,161	3,179,750	1,102,470	2,077,280	232,370,804	64,889,055	167,481,755	3,058,738	203,102,993	2,600,000	277,234,147	136%
Oct - Dec 17		2	SFY18 Q2	FFY18 Q1	626,500	46,474,161	3,152,500	1,002,275	2,150,225	235,523,304	65,891,330	169,631,980	2,713,230	205,816,223	7,581,633	284,815,780	138%
Jan - Mar 18		3	SFY18 Q3	FFY18 Q2	630,500	46,474,161	3,152,500	1,002,275	2,150,225	238,675,804	66,893,605	171,782,205	2,713,230	208,529,453		284,815,780	137%
Apr - Jun 18		4	SFY18 Q4	FFY18 Q3	630,500	46,474,161	3,152,500	1,002,275	2,150,225	241,828,304	67,895,880	173,932,430	2,713,230	211,242,683	(3,409,280)	281,406,500	133%

**Chart 4 - DWSRF Set-Asides (federal funds drawn)**

Federal Grant Year	Total Grant	Grant Approval Date	4-Year Deadline	SWAP (WHP & CD Combined)				Capacity Development - CD				WHP			
				Awarded	Expended Inception to 06/30/17	Expended FY18	Amt Available 06/30/2018	Awarded	Expended Inception to 06/30/17	Expended FY18	Amt Available 06/30/2018	Awarded	Expended Inception to 06/30/17	Expended FY18	Amt Available 06/30/2018
1997-2013	\$ 193,851,300			8,663,029	8,663,029		0	11,441,126	11,441,126		0	4,937,514	4,937,514		0
2014	\$ 13,534,000	09/22/2014	09/22/2018	0			0	1,353,400	1,353,400		0	676,700	676,700		0
2015	\$ 13,445,000	09/02/2015	09/02/2019	0			0	1,344,500	706,312	638,188	0	672,250	503,565	168,685	0
2016	\$ 12,719,000	08/24/2016	08/24/2020	0			0	1,271,900		861,840	410,060	635,950		505,133	130,817
2017	\$ 12,719,000	08/24/2017	10/01/2021	0			0	1,261,000			1,261,000	630,500			630,500
2018	\$ 12,719,000	09/12/2018	09/30/2022	0			0				0				0
<b>Total Available</b>	<b>\$ 258,987,300</b>			<b>\$ 8,663,029</b>	<b>\$ 8,663,029</b>	<b>\$ -</b>	<b>\$ 0</b>	<b>\$ 16,671,926</b>	<b>\$ 13,500,838</b>	<b>\$ 1,500,028</b>	<b>\$ 1,671,060</b>	<b>\$ 7,552,914</b>	<b>\$ 6,117,779</b>	<b>\$ 673,818</b>	<b>\$ 761,317</b>
				\$ -				\$ 15,171,898				\$ 6,879,096			

Federal Grant Year	Total Grant	Grant Approval Date	4-Year Deadline	State Program Management-PWSS				Small System TA (SSTA)				DWSRF Administration			
				Awarded	Expended Inception to 06/30/17	Expended FY18	Amt Available 06/30/2018	Awarded	Expended Inception to 06/30/17	Expended FY18	Amt Available 06/30/2018	Awarded	Expended Inception to 06/30/17	Expended FY18	Amt Available 06/30/2018
1997-2013				15,526,684	15,526,684		0	1,913,862	1,913,861		1	7,720,492	7,720,492		0
2014	\$ 12,743,000	09/22/2014	09/22/2018	1,353,400	1,353,400		0	0			0	541,360	541,360		0
2015	\$ 13,534,000	09/02/2015	09/02/2019	1,344,500	928,093	416,407	0	0			0	537,800	537,800		0
2016	\$ 13,445,000	08/24/2016	08/24/2020	1,271,900		789,704	482,196	308,820	208,932	99,888	0	508,760	270,210	238,550	0
2017	\$ 12,719,000	08/24/2017	10/01/2021	1,361,000			1,361,000	252,200		188,106	64,094	504,400		177,615	326,785
2018	\$ 12,719,000	09/12/2018	09/30/2022				0	0			0				0
<b>Total Available</b>	<b>\$ 258,671,804</b>			<b>\$ 20,857,484</b>	<b>\$ 17,808,177</b>	<b>\$ 1,206,111</b>	<b>\$ 1,843,196</b>	<b>\$ 2,474,882</b>	<b>\$ 2,122,793</b>	<b>\$ 287,994</b>	<b>\$ 64,095</b>	<b>\$ 9,812,812</b>	<b>\$ 9,069,862</b>	<b>\$ 416,165</b>	<b>\$ 326,785</b>

Total Expended SFY 18 ADH:	\$ 3,667,951
Total Expended SFY 18 ANRC:	\$ 416,165
Total Expended SFY 18 All Set Asides:	\$ 4,084,116

### Chart 5 - State Match

Deposit Date	State Match Amount	Funding Source	Cap Grant	Payment Date	Description	State Match Disbursed	State Match Balance
6/30/2017		Balance Froward	2016				2,543,800
6/13/2017	4,000.00	Admin Acct - Advance Dep from June 17	2017				2,547,800
8/31/2017	7,451.67	Accrued Int thru Aug 31, 2017	2017				2,555,252
9/21/2017	619,048.33	Administrative Account	2017				3,174,300
			16 Match	8/30/2017	Huttig (L)-2	(364,514.00)	2,809,786
			16 Match	9/29/2017	Bearden - 3	(478,111.00)	2,696,189
			16 Match	9/29/2017	Huttig (L) - 3 Final	(42,818.33)	2,653,371
			16 Match	9/29/2017	Rison (L) - 2	(189,243.00)	2,464,128
			16 Match	10/24/2017	CAW #3 - 1 Closing	(667,496.64)	1,796,631
			16 Match	10/26/2017	Eudora - Cap I	(57.38)	1,796,574
			16 Match	10/26/2017	Rison (L) - 3	(41,515.00)	1,755,059
			16 Match	10/26/2017	Wooster (L) - 2	(200,723.00)	1,554,336
			16 Match	11/28/2017	Bearden - 4	(157,001.00)	1,397,335
			16 Match	11/28/2017	Rison (L) - 4	(27,806.00)	1,369,529
			16 Match	11/28/2017	Wooster (L) - 3	(204,298.00)	1,165,231
12/4/2017	630,500.00	Admin Account	2017				1,795,731
			16 Match	12/19/2017	Rison (L) - 5	(8,413.00)	1,787,318
			16 Match	12/19/2017	Wooster (L) - 4	(161,803.65)	1,625,514
			17 Match	12/19/2017	Wooster (L) - 4	(36,493.35)	1,589,021
			17 Match	1/29/2018	CAW #3 - 2	(66,500.00)	1,522,521
			17 Match	1/29/2018	Wooster (L) - 5	(415,511.00)	1,107,010
			17 Match	2/27/2018	Wooster (L) - 6	(191,368.00)	915,642
3/14/2018	630,500.00	Admin Account	2017				1,546,142
			17 Match	3/27/2018	Wooster (L) - 7	(31,981.00)	1,514,161
			17 Match	4/1/2018	CAW #3 - 3	(108,542.00)	1,405,619
			17 Match	4/2/2018	CAW #3 - Cap I	(8,226.52)	1,397,392
			17 Match	4/2/2018	Eudora (L) - Cap I	(64.18)	1,397,328
			17 Match	4/2/2018	Wooster (L) - 8	(68,554.00)	1,328,774
			17 Match	5/22/2018	CAW #4 - 1 Closing	(15,150.00)	1,313,624
			17 Match	5/31/2018	CAW #3 - 3	(108,575.00)	1,205,049
			17 Match	5/31/2018	Eudora (L) - 2	(53,105.00)	1,151,944
6/1/2018	630,500.00	Admin Account	2017				1,782,444
			17 Match	5/31/2018	Wooster (L) - 9	(100,070.00)	1,682,374
			17 Match	6/29/2018	Eudora (L) - 3	(124,446.00)	1,557,928
			17 Match	6/29/2018	Rison (L) - 6 & 7	(40,202.00)	1,517,726
			17 Match	6/29/2018	CAW #3 - 5	(245,789.00)	1,271,937
			17 Match	6/29/2018	Wooser (L) - 10	(32,180.00)	1,239,757
<b>Totals:</b>	<b>2,522,000.00</b>					<b>(4,190,557.05)</b>	

**Chart 6 – Loan Disbursements by Project**

Project Name	Loan Number	Project Number	FY	Payment Date	Payment Number	Federal	Fed Cap Grant	State Match Funds	State Match Cap Grant	Total Payment	GPR Pd	Add Sub Pd
CAW #3	01076-DWSRF-L	004-022	2018	10/25/2017	1 Closing	0.00		667,496.64	2016	667,496.64	0.00	0.00
CAW #3	01076-DWSRF-L	004-022	2018	01/20/2018	2	0.00		66,500.00	2017	66,500.00	0.00	0.00
CAW #3	01076-DWSRF-L	004-022	2018	04/27/2018	3	0.00		108,542.00	2017	108,542.00	0.00	0.00
CAW #3	01076-DWSRF-L	004-022	2018	04/27/2018	Cap I	0.00		8,226.52	2017	8,226.52	0.00	0.00
CAW #3	01076-DWSRF-L	004-022	2018	05/30/2018	4	0.00		108,575.00	2017	108,575.00	0.00	0.00
CAW #3	01076-DWSRF-L	004-022	2018	06/24/2018	5	0.00		245,789.00	2017	245,789.00	0.00	0.00
						0.00		1,205,129.16		1,205,129.16	0.00	0.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	07/28/2017	3	442,232.00	2015	0.00		442,232.00	0.00	442,232.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	08/28/2017	4	451,782.00	2015	0.00		451,782.00	0.00	451,782.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	09/26/2017	5	240,570.00	2015	0.00		240,570.00	0.00	240,570.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	10/26/2017	6	249,698.00	2015	0.00		249,698.00	0.00	249,698.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	11/19/2017	7	236,486.00	2015	0.00		236,486.00	0.00	236,486.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	12/20/2017	8	358,583.00	2015	0.00		358,583.00	0.00	358,583.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	01/20/2018	9	294,119.00	2015	0.00		294,119.00	0.00	294,119.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	02/26/2018	10	232,373.24	2016	0.00		232,373.24	0.00	232,373.24
Eudora (PF)	01041-DWSRF-F	003-995	2018	02/26/2018	10	34,681.76	2015	0.00		34,681.76	0.00	34,681.76
Eudora (PF)	01041-DWSRF-F	003-995	2018	03/26/2018	11	113,254.00	2016	0.00		113,254.00	0.00	113,254.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	04/27/2018	12	73,193.00	2016	0.00		73,193.00	0.00	73,193.00
Eudora (PF)	01041-DWSRF-F	003-995	2018	05/30/2018	13	35,237.00	2016	0.00		35,237.00	0.00	35,237.00
						2,762,209.00		0.00		2,762,209.00	0.00	2,762,209.00
Chidester #2 (PF)	00955-DWSRF-F	003-813	2018	06/24/2018	11 Final	6,000.00	2016	0.00		6,000.00	0.00	6,000.00
						6,000.00		0.00		6,000.00	0.00	6,000.00
Lockesburg (PF)	00960-DWSRF-F	003-856	2018	07/28/2017	6	6,000.00	2015	0.00		6,000.00	5,776.12	6,000.00
						6,000.00		0.00		6,000.00	5,776.12	6,000.00
Thornton (PF)	00986-DWSRF-F	003-873	2018	08/28/2017	15	14,062.50	2015	0.00		14,062.50	0.00	14,062.50

Project Name	Loan Number	Project Number	FY	Payment Date	Payment Number	Federal	Fed Cap Grant	State Match Funds	State Match Cap Grant	Total Payment	GPR Pd	Add Sub Pd
Thornton (PF)	00986-DWSRF-F	003-873	2018	12/20/2017	16	2,000.00	2015	0.00		2,000.00	1,916.00	2,000.00
						16,062.50		0.00		16,062.50	1,916.00	16,062.50
Waldo (PF)	00995-DWSRF-F	003-880	2018	09/26/2017	20	100,701.45	2015	0.00		100,701.45	0.00	100,701.45
						100,701.45		0.00		100,701.45	0.00	100,701.45
Eudora (L)	01042-DWSRF-L	003-995	2018	10/26/2017	Cap I	0.00		57.38	2016	57.38	0.00	0.00
Eudora (L)	01042-DWSRF-L	003-995	2018	04/27/2018	Cap I	0.00		64.18	2017	64.18	0.00	0.00
Eudora (L)	01042-DWSRF-L	003-995	2018	05/30/2018	2	0.00		53,105.00	2017	53,105.00	0.00	0.00
Eudora (L)	01042-DWSRF-L	003-995	2018	06/25/2018	3	0.00		124,446.00	2017	124,446.00	0.00	0.00
						0.00		177,672.56		177,672.56	0.00	0.00
Bearden (L)	01050-DWSRF-L	004-001	2018	09/26/2017	3	0.00		478,111.00	2016	478,111.00	0.00	0.00
Bearden (L)	01050-DWSRF-L	004-001	2018	11/19/2017	4	0.00		157,001.00	2016	157,001.00	0.00	0.00
						0.00		635,112.00		635,112.00	0.00	0.00
Marshall (PF)	01062-DWSRF-F	004-011	2018	05/22/2018	1 Closing	20,000.00	2016	0.00		20,000.00	0.00	20,000.00
						20,000.00		0.00		20,000.00	0.00	20,000.00
Old Bella Vista-PF	01063-DWSRF-F	004-012	2018	10/04/2017	1 Closing	11,300.00	2015	0.00		11,300.00	0.00	11,300.00
Old Bella Vista-PF	01063-DWSRF-F	004-012	2018	01/20/2018	2	65,530.00	2015	0.00		65,530.00	0.00	65,530.00
Old Bella Vista-PF	01063-DWSRF-F	004-012	2018	02/26/2018	3	122,228.00	2016	0.00		122,228.00	0.00	122,228.00
Old Bella Vista-PF	01063-DWSRF-F	004-012	2018	03/26/2018	4	67,269.00	2016	0.00		67,269.00	0.00	67,269.00
Old Bella Vista-PF	01063-DWSRF-F	004-012	2018	04/27/2018	5	60,982.00	2016	0.00		60,982.00	0.00	60,982.00
Old Bella Vista-PF	01063-DWSRF-F	004-012	2018	05/30/2018	6	16,743.00	2016	0.00		16,743.00	0.00	16,743.00
						344,052.00		0.00		344,052.00	0.00	344,052.00
Rison(L)	01064-DWSRF-L	004-013	2018	09/26/2017	2	0.00		189,243.00	2016	189,243.00	0.00	0.00
Rison(L)	01064-DWSRF-L	004-013	2018	10/26/2017	3	0.00		41,515.00	2016	41,515.00	0.00	0.00
Rison(L)	01064-DWSRF-L	004-013	2018	11/19/2017	4	0.00		27,806.00	2016	27,806.00	0.00	0.00
Rison(L)	01064-DWSRF-L	004-013	2018	12/20/2017	5	0.00		8,413.00	2016	8,413.00	0.00	0.00

Project Name	Loan Number	Project Number	FY	Payment Date	Payment Number	Federal	Fed Cap Grant	State Match Funds	State Match Cap Grant	Total Payment	GPR Pd	Add Sub Pd
Rison(L)	01064-DWSRF-L	004-013	2018	06/25/2018	6 & 7	0.00		40,202.00	2017	40,202.00	0.00	0.00
						0.00		307,179.00		307,179.00	0.00	0.00
CAW #4	01077-DWSRF-L	004-022	2018	05/23/2018	1 Closing	0.00		15,150.00	2017	15,150.00	0.00	0.00
						0.00		15,150.00		15,150.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	08/15/2017	1 Closing	19,879.00	2015	0.00		19,879.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	10/26/2017	2	0.00		200,723.00	2016	200,723.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	11/18/2017	3	0.00		204,298.00	2016	204,298.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	12/20/2017	4	0.00		36,493.35	2017	36,493.35	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	12/20/2017	4	0.00		161,803.65	2016	161,803.65	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	01/20/2018	5	0.00		415,511.00	2017	415,511.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	02/26/2018	6	0.00		191,368.00	2017	191,368.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	03/26/2018	7	0.00		31,981.00	2017	31,981.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	04/27/2018	8	0.00		68,554.00	2017	68,554.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	05/30/2018	9	0.00		100,070.00	2017	100,070.00	0.00	0.00
Wooster (L)	01078-DWSRF-L	004-023	2018	06/25/2018	10	0.00		32,180.00	2017	32,180.00	0.00	0.00
						19,879.00		1,442,982.00		1,462,861.00	0.00	0.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	07/28/2017	1 Closing	10,000.00	2015	0.00		10,000.00	10,000.00	10,000.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	09/26/2017	2	57,657.00	2015	0.00		57,657.00	57,657.00	57,657.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	10/26/2017	3	53,001.00	2015	0.00		53,001.00	53,001.00	53,001.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	11/19/2017	4	75,265.00	2015	0.00		75,265.00	75,265.00	75,265.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	12/20/2017	5	154,789.00	2015	0.00		154,789.00	154,789.00	154,789.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	01/20/2018	6	198,127.00	2015	0.00		198,127.00	198,127.00	198,127.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	02/26/2018	7	236,423.00	2016	0.00		236,423.00	236,423.00	236,423.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	03/26/2018	8	128,431.00	2016	0.00		128,431.00	128,431.00	128,431.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	04/27/2018	9	159,819.00	2016	0.00		159,819.00	159,819.00	159,819.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	05/30/2018	10	85,165.00	2016	0.00		85,165.00	85,165.00	85,165.00
Huttig (PF)	01080-DWSRF-F	004-024	2018	06/25/2018	11	139,018.00	2016	0.00		139,018.00	139,018.00	139,018.00
						1,297,695.00		0.00		1,297,695.00	1,297,695.00	1,297,695.00

Project Name	Loan Number	Project Number	FY	Payment Date	Payment Number	Federal	Fed Cap Grant	State Match Funds	State Match Cap Grant	Total Payment	GPR Pd	Add Sub Pd
Huttig (L)	01079-DWSRF-L	004-024	2018	07/24/2017	1 Closing	117,667.67	2015	0.00		117,667.67	117,667.67	0.00
Huttig (L)	01079-DWSRF-L	004-024	2018	08/28/2017	2	0.00		364,514.00	2016	364,514.00	364,514.00	0.00
Huttig (L)	01079-DWSRF-L	004-024	2018	09/26/2017	3 Final	0.00		42,818.33	2016	42,818.33	42,818.33	0.00
						117,667.67		407,332.33		525,000.00	525,000.00	0.00
Stamps (PF)	01081-DWSRF-F	004-025	2018	12/08/2017	1 Closing	188,076.00	2015	0.00		188,076.00	0.00	188,076.00
Stamps (PF)	01081-DWSRF-F	004-025	2018	04/27/2018	2	488,935.00	2016	0.00		488,935.00	0.00	488,935.00
Stamps (PF)	01081-DWSRF-F	004-025	2018	05/30/2018	3	232,875.00	2016	0.00		232,875.00	0.00	232,875.00
Stamps (PF)	01081-DWSRF-F	004-025	2018	06/25/2018	4	209,017.00	2017	0.00		209,017.00	0.00	209,017.00
						1,118,903.00		0.00		1,118,903.00	0.00	1,118,903.00
Total						5,809,169.62		4,190,557.05		9,999,726.67	1,830,387.12	5,671,622.95

## Chart 7 – Additional Subsidization by Cap Grant

Drinking Water Grant Requirements						
As of 06/30/2018						
Additional Subsidization, Green Project, Disadvantaged Community Add Sub						
<b>2010 Cap Grant Requirements (Award date 04/05/11) - CLOSED</b>						
<i>Minimum Required: \$6,161,700</i>						
Project	Loan Number	Bond Purch. Agreement Date	Loan Closing Date	GPR Allocated	GPR Expensed	GPR Balance
McNeil	00870-DWSRF-F	11/5/2012	11/5/2012	1,240,068	1,240,068	-
Norman	00871-DWSRF-F	6/22/2012	6/22/2012	2,239,005	2,239,005	-
Old Bella Vista	00894-DWSRF-F	10/23/2012	10/23/2012	-	-	-
Stephens	00873-DWSRF-F	11/5/2012	11/5/2012	630,000	630,000	-
<b>FINAL - Grant Closed</b>						
<b>2010 Grant Totals</b>				<b>4,109,073</b>	<b>4,109,073</b>	<b>-</b>
<b>AR Targeted Amt:</b>				<b>4,109,073</b>	<b>Required</b>	
<b>(Over)/Under</b>				<b>FINAL - Grant Closed</b>	<b>0</b>	
<b>2011 Cap Grant Requirements (Award date 03/14/12) - CLOSED</b>						
<i>Minimum Required: \$4,276,510</i>						
Project	Loan Number	Bond Purch. Agreement Date	Loan Closing Date	GPR Allocated	GPR Expensed	GPR Balance
Bradley	00900-DWSRF-F	6/13/2013	6/13/2013			-
Chidester 1	00907-DWSRF-F	4/22/2013	4/22/2013	521,000	521,000	-
Stephens	00873-DWSRF-F	11/5/2012	11/5/2012	2,329,959	2,329,959	-
Wilton (PF)	00908-DWSRF-F	10/14/2013	10/14/2013	-	-	-
<b>FINAL - Grant Closed</b>						
<b>2011 Grant Totals</b>				<b>2,850,959</b>	<b>2,850,959</b>	<b>-</b>
<b>AR Targeted Amt:</b>				<b>2,850,959</b>	<b>Required</b>	
<b>(Over)/Under</b>				<b>FINAL - Grant Closed</b>	<b>0</b>	
<b>2012 Cap Grant Requirements (Award date 05/14/12)</b>						
<i>Minimum Required: \$2,716,400</i>						
<i>Maximum Allowed: \$4,074,600</i>						
Project	Loan Number	Bond Purch. Agreement Date	Loan Closing Date	GPR Allocated	GPR Expensed	GPR Balance
Chidester 1	00907-DWSRF-F	4/22/2013	4/22/2013	870,149	870,149	-
Wilton (L)	00908-DWSRF-L	10/14/2013	10/14/2013	195,014	195,014	-
Wilton (PF)	00908-DWSRF-F	10/14/2013	10/14/2013	530,000	530,000	-
Winthrop (L)	00910-DWSRF-L	10/21/2013	10/21/2013	266,340	266,340	-
Winthrop (PF)	00911-DWSRF-F	10/21/2013	10/21/2013	532,898	532,898	(0)
Lockesburg (PF)	00960-DWSRF-F	10/14/2014	10/14/2014	322,000	322,000	-
Waldo (PF)	00995-DWSRF-F	5/10/2015	5/10/2015			-
<b>FINAL - Grant Closed</b>						
<b>2012 Grant Totals</b>				<b>2,716,400</b>	<b>2,716,400</b>	<b>(0)</b>
<b>AR Targeted Amt:</b>				<b>2,716,400</b>	<b>(Discretionary)</b>	
<b>(Over)/Under</b>				<b>0</b>	<b>(0)</b>	
<b>2013 Cap Grant Requirements (Award date 9/12/13) - CLOSED 03/06/17</b>						
<i>Minimum Required: \$2,548,600</i>						
<i>Maximum Allowed: \$3,822,900</i>						
Project	Loan Number	Bond Purch. Agreement Date	Loan Closing Date	GPR Allocated	GPR Expensed	GPR Balance
Lockesburg (L)	00959-DWSRF-L	10/14/2014	10/14/2014	1,051,062	1,051,062	-
Lockesburg (PF)	00960-DWSRF-F	10/14/2014	10/14/2014	717,582	717,582	-
Strong	00976-DWSRF-F	5/12/2015	5/12/2015			-
Thornton (PF)	00986-DWSRF-F	5/11/2015	5/11/2015	9,355	9,355	-
Waldo (PF)	00995-DWSRF-F	5/10/2015	5/10/2015			-
Wilton (PF)	00908-DWSRF-F	10/14/2013	10/14/2013	365,613	365,613	0
Winthrop (PF)	00911-DWSRF-F	10/21/2013	10/21/2013	248,702	248,702	0
<b>FINAL - Grant Closed</b>						
<b>2013 Grant Totals</b>				<b>2,392,314</b>	<b>2,392,314</b>	<b>0</b>
<b>AR Targeted Amt:</b>				<b>2,548,600</b>	<b>(Discretionary)</b>	
<b>(Over)/Under</b>				<b>FINAL - Grant Closed</b>	<b>156,286</b>	





**VI. Appendix B**

**FINANCIAL STATEMENT REPORTS  
Capacity Analysis Bond Issuance**

**Appendix B-1 – Statement of Net Position**

<b>YEARS ENDING JUNE 30, 2018 and June 30, 2017</b>		
	<b>2018 (UNAUDITED)</b>	<b>2017 (AUDITED)</b>
<b>ASSETS</b>		
<b>Current Assets</b>		
Cash and cash equivalents	\$ 73,590,269	\$ 41,596,472
Accrued interest receivable:		
Investment	\$ 215,218	\$ 186,420
Loans	\$ 32,445	\$ 195,142
Accounts receivable:	\$ -	\$ -
Borrowers	\$ 18,685	\$ 107,500
EPA	\$ 559,231	\$ 723,810
Investments - current portion	\$ 29,932,484	\$ 23,989,140
<b>Total Current Assets</b>	<b>\$ 104,348,332</b>	<b>\$ 66,798,484</b>
<b>Noncurrent Assets</b>		
Investments - restricted	\$ 3,956,800	\$ 34,130,940
Loans receivable - restricted		
Constructon	\$ 153,035,419	\$ 157,660,525
NE Arkansas PWA	\$ 3,595,190	\$ 3,694,340
<b>Total Noncurrent Assets</b>	<b>\$ 160,587,409</b>	<b>\$ 195,485,805</b>
<b>TOTAL ASSETS</b>	<b>\$ 264,935,741</b>	<b>\$ 262,284,289</b>
<b>LIABILITIES</b>		
<b>Current Liabilities</b>		
Accounts payable	\$ 468,805	\$ 719,732
Accrued interest payable	\$ 67,707	\$ 75,061
Bonds payable-current portion	\$ 2,205,000	\$ 1,765,000
<b>Total Current Liabilities</b>	<b>\$ 2,741,512</b>	<b>\$ 2,559,793</b>
<b>Noncurrent Liabilities</b>		
Bonds payable-net of unamortized premiums	\$ 16,538,729	\$ 19,064,863
<b>Total Noncurrent Liabilities</b>	<b>\$ 16,538,729</b>	<b>\$ 19,064,863</b>
<b>TOTAL LIABILITIES</b>	<b>\$ 19,280,241</b>	<b>\$ 21,624,657</b>
<b>NET ASSETS</b>		
Restricted for program administration	\$ 245,655,499	\$ 240,659,631

**Appendix B-2 – Revenues, Expenses & Changes in Net Position**

<b>COMBINING STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION</b>					
<b>YEARS ENDING JUNE 30, 2018 and June 30, 2017</b>					
	<b>DEPT. OF HEALTH SET-ASIDE</b>	<b>FEES AND EXPENSE</b>	<b>REVOLVING LOAN FUND</b>	<b>2018 (UNAUDITED)</b>	<b>2017 (AUDITED)</b>
<b><u>OPERATING REVENUES</u></b>					
Interest on:					
Investments	\$ -	\$ 64,881	\$ 1,477,634	\$ 1,542,515	\$ 893,515
Loans	\$ -	\$ 69,775	\$ 2,682,678	\$ 2,752,453	\$ 3,163,410
Financing fees	\$ -	\$ 1,542,559	\$ -	\$ 1,542,559	\$ 1,634,420
Net depreciation of investments	\$ -	\$ 814	\$ (194,301)	\$ (193,487)	\$ (483,811)
Total Operating Revenues	\$ -	\$ 1,678,029	\$ 3,966,011	\$ 5,644,040	\$ 5,207,534
<b><u>OPERATING EXPENSES</u></b>					
Program Administration	\$ -	\$ 173,018	\$ -	\$ 173,018	\$ 178,342
Federal financial assistance programs					
Base federal grants	\$ -	\$ -	\$ 5,671,623	\$ 5,671,623	\$ 2,619,748
Bond Interest	\$ -	\$ -	\$ 893,383	\$ 893,383	\$ 983,695
Amortization of bond premiums	\$ -	\$ -	\$ (321,134)	\$ (321,134)	\$ (353,598)
Total Operating Expenses	\$ -	\$ 173,018	\$ 6,243,872	\$ 6,416,890	\$ 3,428,187
<b><u>OPERATING Income (Loss)</u></b>	<b>\$ -</b>	<b>\$ 1,505,012</b>	<b>\$ (2,277,862)</b>	<b>\$ (772,850)</b>	<b>\$ 1,779,347</b>
<b><u>NON-OPERATING REVENUE</u></b>					
Base federal grants	\$ 3,409,989	\$ 509,548	\$ 5,809,170	\$ 9,728,707	\$ 12,360,368
State Contributions	\$ -	\$ -	\$ -	\$ -	\$ -
<b><u>INCOME BEFORE TRANSFERS OUT</u></b>	<b>\$ 3,409,989</b>	<b>\$ 2,014,560</b>	<b>\$ 3,531,308</b>	<b>\$ 9,728,707</b>	<b>\$ 14,139,715</b>
Transfers (Out) In	\$ (3,409,989)	\$ (3,060,548)	\$ 2,510,548	\$ (3,959,989)	\$ (4,113,052)
Change in Net Position	\$ -	\$ (1,045,989)	\$ 6,041,856	\$ 5,768,718	\$ 10,026,663
<b><u>NET POSITION</u></b>					
Beginning of year	\$ -	\$ 8,513,615	\$ 232,146,016	\$ 240,659,631	\$ 230,632,969
End of year	\$ -	\$ 7,467,626	\$ 238,187,872	\$ 245,655,498	\$ 240,659,631

## Appendix B-3 – Statement of Cash Flows

YEARS ENDING JUNE 30, 2018 and June 30, 2017					
	SET ASIDES	FEES AND EXPENSES	REVOLVING LOAN FUND	2018 (UNAUDITED)	2017 (AUDITED)
<b><u>OPERATING ACTIVITIES</u></b>					
Financing fees received	\$ -	\$ 1,631,374	\$ -	\$ 1,631,374	\$ 1,638,673
Cash paid for program administration	\$ -	\$ (177,847)	\$ 11,689	\$ (166,158)	\$ (181,496)
				\$ -	\$ -
Net cash provided by operating activities	\$ -	\$ 1,453,527	\$ 11,689	\$ 1,465,216	\$ 1,457,177
<b><u>NON-CAPITAL FINANCING ACTIVITIES</u></b>					
Repayment of long-term debt	\$ -	\$ -	\$ (1,765,000)	\$ (1,765,000)	\$ (1,810,000)
Cash paid for interest	\$ -	\$ -	\$ (900,738)	\$ (900,738)	\$ (991,237)
Transfer In (Out)	\$ (3,667,951)	\$ (3,060,548)	\$ 2,510,548	\$ (4,217,951)	\$ (3,926,350)
Nonoperation grants received	\$ 3,667,951	\$ 416,165	\$ 5,809,170	\$ 9,893,286	\$ 12,068,206
Net cash (used in) provided by non capital financing activities	\$ -	\$ (2,644,383)	\$ 5,653,980	\$ 3,009,597	\$ 5,340,619
<b><u>INVESTING ACTIVITIES</u></b>					
Interest received on investments	\$ -	\$ 60,569	\$ 1,453,148	\$ 1,513,717	\$ 815,503
Interest received on loans		\$ 73,043	\$ 2,842,282	\$ 2,915,325	\$ 3,171,143
Principal repayments on loans		\$ 99,150	\$ 8,953,209	\$ 9,052,359	\$ 14,310,805
Loan disbursements		\$ -	\$ (4,328,104)	\$ (4,328,104)	\$ (5,514,013)
Federal grant funds expended		\$ -	\$ (5,671,623)	\$ (5,671,623)	\$ (2,619,748)
Proceeds from sale of Investments	\$ -	\$ 814	\$ 24,036,495	\$ 24,037,309	\$ 31,000,000
Purchase of investments		\$ -	\$ -	\$ -	\$ (22,354,962)
Net Cash provided by investing activities	\$ -	\$ 233,575	\$ 27,285,408	\$ 27,518,983	\$ 18,808,728
(Decrease) Increase in Cash and Cash Equivalents	\$ -	\$ (957,281)	\$ 32,951,077	\$ 31,993,796	\$ 25,606,524
<b><u>CASH AND CASH EQUIVALENTS:</u></b>					
Beginning of year	\$ -	\$ 4,696,778	\$ 36,899,695	\$ 41,596,473	\$ 15,987,555
End of Year	\$ -	\$ 3,739,497	\$ 69,850,772	\$ 73,590,269	\$ 41,594,079
<b><u>RECONCILIATION OF OPERATING INCOME TO NET CASH (Used) IN OPERATING ACTIVITIES:</u></b>					
Operating Income (Loss)	\$ -	\$ 1,505,012	\$ (2,277,862)	\$ (772,850)	\$ 1,776,955
Items not providing operating activities cash flows:					
Interest on loans	\$ -	\$ (64,881)	\$ (1,477,634)	\$ (1,542,515)	\$ (3,163,410)
Interest on investments	\$ -	\$ (69,775)	\$ (2,682,678)	\$ (2,752,453)	\$ (893,514)
Bond interest paid	\$ -	\$ -	\$ 893,383	\$ 893,383	\$ 983,696
Amortization of bond premiums	\$ -	\$ -	\$ (321,134)	\$ (321,134)	\$ (353,598)
Net depreciation (appreciation) of investments		\$ (814)	\$ 194,301	\$ 193,487	\$ 486,202
Federal grants expended		\$ -	\$ 5,671,623	\$ 5,671,623	\$ 2,619,748
Changes in					
Accounts receivable					
Borrowers	\$ -	\$ 88,815	\$ -	\$ 88,815	\$ 4,253
Accounts Payable		\$ (4,828)	\$ 11,688	\$ 6,860	\$ (3,155)
Net cash used in operating activities	\$ -	\$ 1,453,528	\$ 11,688	\$ 1,465,216	\$ 1,457,177

**Appendix B-4 – Pace Calculations – Financial Indicators**

<b>FEDERAL RETURN ON INVESTMENT</b>			
<b>State Fiscal Year</b>	<b>Cumulative Assistance Disbursed</b>	<b>Cumulative Federal Cash Draws</b>	<b>Federal Return on Investment</b>
2015	\$ 208,526,297	\$ 211,919,279	98.40%
2016	\$ 219,164,456	\$ 222,754,746	98.39%
2017	\$ 227,298,217	\$ 222,754,746	102.04%
2018	\$ 237,297,944	\$ 235,247,630	100.87%
<b>EXECUTED LOANS AS A PERCENTAGE OF FUNDS AVAILABLE</b>			
<b>State Fiscal Year</b>	<b>Total RLF Assistance Provided (Loans)</b>	<b>Cumulative Funds Available for Loans</b>	<b>Executed Loans as a % of Funds Available</b>
2015	\$ 258,254,147	\$ 308,916,116	83.60%
2016	\$ 262,254,147	\$ 329,872,715	79.50%
2017	\$ 274,634,147	\$ 356,424,953	77.05%
2018	\$ 281,406,500	\$ 378,130,754	74.42%
<b>LOAN DISBURSEMENTS AS A PERCENTAGE OF EXECUTED LOANS</b>			
<b>State Fiscal Year</b>	<b>Cumulative Assistance Disbursed</b>	<b>Total RLF Assistance Provided (Loans)</b>	<b>Loan Disbursements as a % of Executed Loans</b>
2015	\$ 208,526,297	\$ 258,254,147	80.74%
2016	\$ 219,164,456	\$ 262,254,147	83.57%
2017	\$ 227,298,217	\$ 274,634,147	82.76%
2018	\$ 237,297,944	\$ 281,406,500	84.33%
<b>***Note: All data from NIMS which includes ARRA totals</b>			

## Appendix B-5 – Capacity Analysis Bond Issuance

\* Preliminary for Discussion Only \*

**Arkansas Development Finance Authority  
Drinking Water SRF  
Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)**

**Summary of Projected Program Capacity**

Fiscal Year	Loan Funding Sources					Loan Funding Uses					Cumulative Loans Funded	Inflation Adjusted Total New Loans at 2.43%	(3) Cumulative Inflation Adjusted Total New Loans at	(1) Effective Loan Rate	Effective Subsidy
	(1) Bonds Sold	Assumed Bond Rate	Federal Cap Grants	State Match	Revenue Fund Releases	Bond Funded New Loans	(2) Direct Funded Loans	Total No Interest Loans	Total New Loans						
2019	62,000,000	4.00%	11,864,810	3,342,200	-	61,070,000	40,000,000	-	101,070,000	101,070,000	101,070,000	101,070,000	1.81%	54.75%	
2020	25,000,000	4.25%	11,864,810	3,342,200	-	24,625,000	40,000,000	20,000,000	84,625,000	185,695,000	82,615,784	183,685,784	1.99%	53.18%	
2021	25,000,000	4.50%	-	-	-	24,625,000	36,258,724	15,000,000	75,883,724	261,578,724	72,323,149	256,008,933	2.16%	52.00%	
2022	25,000,000	4.75%	-	-	-	24,625,000	16,146,141	-	40,771,141	302,349,865	37,935,509	293,944,442	2.34%	50.74%	
2023	25,000,000	5.00%	-	-	-	24,625,000	19,041,732	-	43,666,732	346,016,597	39,665,056	333,609,499	2.51%	49.80%	
2024	24,000,000	5.25%	-	-	-	23,640,000	19,518,609	-	43,158,609	389,175,205	38,272,706	371,882,205	2.69%	48.76%	
2025	24,000,000	5.50%	-	-	-	23,640,000	20,029,329	-	43,669,329	432,844,534	37,806,163	409,688,368	2.86%	48.00%	
2026	24,000,000	5.50%	-	-	-	23,640,000	20,604,798	-	44,244,798	477,089,332	37,394,923	447,083,291	2.86%	48.00%	
2027	24,000,000	5.50%	-	-	-	23,640,000	21,247,484	-	44,887,484	521,976,816	37,037,362	484,120,653	2.86%	48.00%	
2028	24,000,000	5.50%	-	-	-	23,640,000	21,244,358	-	44,884,358	566,861,174	36,155,481	520,276,134	2.86%	48.00%	
2029	24,000,000	5.50%	-	-	-	23,640,000	21,430,951	-	45,070,951	611,932,124	35,443,793	555,719,927	2.86%	48.00%	
2030	24,000,000	5.50%	-	-	-	23,640,000	21,881,581	-	45,521,581	657,453,705	34,948,228	590,668,155	2.86%	48.00%	
2031	24,000,000	5.50%	-	-	-	23,640,000	22,256,525	-	45,896,525	703,350,230	34,399,488	625,067,643	2.86%	48.00%	
2032	24,000,000	5.50%	-	-	-	23,640,000	21,689,507	-	45,329,507	748,679,738	33,167,865	658,235,508	2.86%	48.00%	
2033	24,000,000	5.50%	-	-	-	23,640,000	20,803,751	-	44,443,751	793,123,489	31,747,649	689,983,157	2.86%	48.00%	
2034	22,000,000	5.75%	-	-	-	21,670,000	20,877,832	-	42,547,832	835,671,321	29,671,715	719,654,872	3.04%	47.13%	
2035	22,000,000	5.75%	-	-	-	21,670,000	20,798,534	-	42,468,534	878,139,856	28,913,245	748,568,117	3.04%	47.13%	
2036	22,000,000	5.75%	-	-	-	21,670,000	21,122,209	-	42,792,209	920,932,065	28,441,901	777,010,018	3.04%	47.13%	
2037	22,000,000	5.75%	-	-	-	21,670,000	21,425,717	-	43,095,717	964,027,782	27,963,554	804,973,572	3.04%	47.13%	
2038	22,000,000	5.75%	-	-	-	21,670,000	21,424,816	-	43,094,816	1,007,122,598	27,299,057	832,272,629	3.04%	47.13%	
<b>TOTAL</b>	<b>512,000,000</b>		<b>23,729,620</b>	<b>6,684,400</b>	<b>-</b>	<b>504,320,000</b>	<b>467,802,598</b>	<b>35,000,000</b>	<b>1,007,122,598</b>			<b>832,272,629</b>			

- (1) Effective interest rate represents total loan rate less 1.0% of Admin Fees.
- (2) Future leveraged loan totals represent the projected future bond par amount less cost of issuance expenses which have been estimated at 1.50%. Preliminary, for discussion purposes only.
- (3) Inflation rate estimate.

Note: Scenario assumes all currently outstanding Direct Loans are pledged to bond debt service. Excess coverage will recycle to equity for funding of additional pledged Direct Loans.

<i>Proof of Perpetuity in Final Year:</i>		<i>6/1/2059</i>
To-Date Capitalization to Preserve:	208,687,257	
Assumed Future Capitalization:	30,414,020	
Total Preservation Requirement:	<u>239,101,277</u>	
Equity Fund Balance on 6/1/2059:	239,141,300	
Perpetuity Excess (Shortfall):	40,023	

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

*Projected Drinking Water Debt Service Coverage*

FYE	Net Revenue	Total Debt Service	Excess Available	Transfer (to)/from Equity Fund	Coverage
2019	11,551,858	3,017,488	8,534,370	(8,534,370)	3.83x
2020	13,735,896	5,247,238	8,488,658	(8,488,658)	2.62x
2021	19,843,105	8,208,556	11,634,549	(11,634,549)	2.42x
2022	26,113,443	9,967,302	16,146,141	(16,146,141)	2.62x
2023	30,898,437	11,856,705	19,041,732	(19,041,732)	2.61x
2024	33,306,576	13,787,967	19,518,609	(19,518,609)	2.42x
2025	35,713,361	15,684,032	20,029,329	(20,029,329)	2.28x
2026	38,211,934	17,607,137	20,604,798	(20,604,798)	2.17x
2027	39,912,312	18,664,828	21,247,484	(21,247,484)	2.14x
2028	41,658,365	20,414,007	21,244,358	(21,244,358)	2.04x
2029	43,077,012	21,646,061	21,430,951	(21,430,951)	1.99x
2030	45,535,946	23,654,365	21,881,581	(21,881,581)	1.93x
2031	47,919,194	25,662,669	22,256,525	(22,256,525)	1.87x
2032	49,360,480	27,670,973	21,689,507	(21,689,507)	1.78x
2033	50,483,028	29,679,277	20,803,751	(20,803,751)	1.70x
2034	52,565,413	31,687,581	20,877,832	(20,877,832)	1.66x
2035	54,439,419	33,640,884	20,798,534	(20,798,534)	1.62x
2036	56,642,410	35,520,201	21,122,209	(21,122,209)	1.59x
2037	58,825,235	37,399,518	21,425,717	(21,425,717)	1.57x
2038	60,703,652	39,278,835	21,424,816	(21,424,816)	1.55x
2039	63,493,045	41,158,152	22,334,892	(22,334,892)	1.54x
2040	65,019,863	41,772,469	23,247,394	(23,247,394)	1.56x
2041	58,689,739	37,210,401	21,479,338	(21,479,338)	1.58x
2042	53,895,449	35,329,905	18,565,544	(18,565,544)	1.53x
2043	49,661,168	33,408,001	16,253,166	(16,253,166)	1.49x
2044	47,087,148	31,444,240	15,642,908	(15,642,908)	1.50x
2045	44,285,432	29,438,175	14,847,257	(14,847,257)	1.50x
2046	41,469,088	27,471,320	13,997,767	(13,997,767)	1.51x
2047	38,573,835	25,463,016	13,110,819	(13,110,819)	1.51x
2048	35,640,466	23,454,712	12,185,754	(12,185,754)	1.52x
2049	32,664,533	21,446,408	11,218,125	(11,218,125)	1.52x
2050	29,449,561	19,438,104	10,011,456	(10,011,456)	1.52x
2051	26,459,162	17,429,801	9,029,361	(9,029,361)	1.52x
2052	23,438,864	15,421,497	8,017,367	(8,017,367)	1.52x
2053	20,393,689	13,413,193	6,980,496	(6,980,496)	1.52x
2054	17,386,135	11,404,889	5,981,246	(5,981,246)	1.52x
2055	14,437,349	9,396,585	5,040,765	(5,040,765)	1.54x
2056	11,566,880	7,517,268	4,049,612	(4,049,612)	1.54x
2057	8,701,760	5,637,951	3,063,809	(3,063,809)	1.54x
2058	5,814,804	3,758,634	2,056,170	(2,056,170)	1.55x
2059	2,907,372	1,879,317	1,028,055	(1,028,055)	1.55x
	<u>1,501,532,414</u>	<u>883,189,661</u>	<u>618,342,753</u>	<u>(618,342,753)</u>	

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Drinking Water - Revenue Fund

FYE	Existing	Leveraged	Future Pledged Loans		Revenue Fund	Total
	Loan		Direct	No Interest Loan		
	Repayments	Repayments	Repayments	Repayments	0.00%	Net Revenues
2019	11,551,858	-	-	-	-	11,551,858
2020	11,906,529	1,105,367	724,000	-	-	13,735,896
2021	12,488,711	4,156,749	3,197,645	-	-	19,843,105
2022	13,281,558	5,703,143	5,628,742	1,500,000	-	26,113,443
2023	13,396,408	7,276,805	7,475,224	2,750,000	-	30,898,437
2024	13,086,570	8,874,515	8,595,491	2,750,000	-	33,306,576
2025	12,624,681	10,473,459	9,865,221	2,750,000	-	35,713,361
2026	12,216,846	12,057,435	11,187,653	2,750,000	-	38,211,934
2027	11,003,362	13,625,918	12,533,032	2,750,000	-	39,912,312
2028	9,795,449	15,194,402	13,918,514	2,750,000	-	41,658,365
2029	8,235,959	16,762,885	15,328,168	2,750,000	-	43,077,012
2030	7,711,538	18,331,368	16,743,040	2,750,000	-	45,535,946
2031	7,091,499	19,899,852	18,177,844	2,750,000	-	47,919,194
2032	6,501,763	21,468,335	19,640,382	1,750,000	-	49,360,480
2033	5,595,353	23,036,818	21,100,856	750,000	-	50,483,028
2034	4,695,517	24,605,302	22,514,594	750,000	-	52,565,413
2035	3,598,375	26,156,449	23,934,595	750,000	-	54,439,419
2036	2,933,307	27,618,406	25,340,698	750,000	-	56,642,410
2037	2,241,173	29,080,362	26,753,701	750,000	-	58,825,235
2038	1,223,406	30,542,318	28,187,927	750,000	-	60,703,652
2039	1,105,394	32,004,275	29,633,376	750,000	-	63,493,045
2040	1,034,923	32,807,463	30,427,477	750,000	-	65,019,863
2041	773,155	29,140,752	28,025,832	750,000	-	58,689,739
2042	427,306	27,636,220	25,581,923	250,000	-	53,895,449
2043	224,212	26,106,883	23,330,073	-	-	49,661,168
2044	226,179	24,551,035	22,309,933	-	-	47,087,148
2045	228,206	22,969,920	21,087,307	-	-	44,285,432
2046	230,293	21,426,132	19,812,662	-	-	41,469,088
2047	232,444	19,857,649	18,483,742	-	-	38,573,835
2048	234,660	18,289,165	17,116,641	-	-	35,640,466
2049	236,954	16,720,682	15,706,898	-	-	32,664,533
2050	-	15,152,199	14,297,362	-	-	29,449,561
2051	-	13,583,715	12,875,446	-	-	26,459,162
2052	-	12,015,232	11,423,632	-	-	23,438,864
2053	-	10,446,749	9,946,940	-	-	20,393,689
2054	-	8,878,265	8,507,869	-	-	17,386,135
2055	-	7,309,782	7,127,568	-	-	14,437,349
2056	-	5,847,825	5,719,054	-	-	11,566,880
2057	-	4,385,869	4,315,891	-	-	8,701,760
2058	-	2,923,913	2,890,891	-	-	5,814,804
2059	-	1,461,956	1,445,415	-	-	2,907,372
	176,133,588	669,485,569	620,913,257	35,000,000	-	1,501,532,414

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)  
 Drinking Water - Equity Fund

FYE	Beginning Balance	Transfers (to)/from Revenue Fund	Interest Earnings @ 0.00%	Future Direct Loan Funding (Pledged)	Future 10-Year No Interest Loan Funding	Future 20-Year No Interest Loan Funding	Net Available Cap Grants & State Match	Ending Balance
2019	93,187,126	8,534,370	-	(40,000,000)	-	-	15,207,010	76,928,506
2020	76,928,506	8,488,658	-	(40,000,000)	(10,000,000)	(10,000,000)	15,207,010	40,624,175
2021	40,624,175	11,634,549	-	(36,258,724)	(10,000,000)	(5,000,000)	-	1,000,000
2022	1,000,000	16,146,141	-	(16,146,141)	-	-	-	1,000,000
2023	1,000,000	19,041,732	-	(19,041,732)	-	-	-	1,000,000
2024	1,000,000	19,518,609	-	(19,518,609)	-	-	-	1,000,000
2025	1,000,000	20,029,329	-	(20,029,329)	-	-	-	1,000,000
2026	1,000,000	20,604,798	-	(20,604,798)	-	-	-	1,000,000
2027	1,000,000	21,247,484	-	(21,247,484)	-	-	-	1,000,000
2028	1,000,000	21,244,358	-	(21,244,358)	-	-	-	1,000,000
2029	1,000,000	21,430,951	-	(21,430,951)	-	-	-	1,000,000
2030	1,000,000	21,881,581	-	(21,881,581)	-	-	-	1,000,000
2031	1,000,000	22,256,525	-	(22,256,525)	-	-	-	1,000,000
2032	1,000,000	21,689,507	-	(21,689,507)	-	-	-	1,000,000
2033	1,000,000	20,803,751	-	(20,803,751)	-	-	-	1,000,000
2034	1,000,000	20,877,832	-	(20,877,832)	-	-	-	1,000,000
2035	1,000,000	20,798,534	-	(20,798,534)	-	-	-	1,000,000
2036	1,000,000	21,122,209	-	(21,122,209)	-	-	-	1,000,000
2037	1,000,000	21,425,717	-	(21,425,717)	-	-	-	1,000,000
2038	1,000,000	21,424,816	-	(21,424,816)	-	-	-	1,000,000
2039	1,000,000	22,334,892	-	-	-	-	-	23,334,892
2040	23,334,892	23,247,394	-	-	-	-	-	46,582,286
2041	46,582,286	21,479,338	-	-	-	-	-	68,061,624
2042	68,061,624	18,565,544	-	-	-	-	-	86,627,168
2043	86,627,168	16,253,166	-	-	-	-	-	102,880,334
2044	102,880,334	15,642,908	-	-	-	-	-	118,523,242
2045	118,523,242	14,847,257	-	-	-	-	-	133,370,499
2046	133,370,499	13,997,767	-	-	-	-	-	147,368,267
2047	147,368,267	13,110,819	-	-	-	-	-	160,479,086
2048	160,479,086	12,185,754	-	-	-	-	-	172,664,839
2049	172,664,839	11,218,125	-	-	-	-	-	183,882,964
2050	183,882,964	10,011,456	-	-	-	-	-	193,894,420
2051	193,894,420	9,029,361	-	-	-	-	-	202,923,781
2052	202,923,781	8,017,367	-	-	-	-	-	210,941,148
2053	210,941,148	6,980,496	-	-	-	-	-	217,921,644
2054	217,921,644	5,981,246	-	-	-	-	-	223,902,890
2055	223,902,890	5,040,765	-	-	-	-	-	228,943,655
2056	228,943,655	4,049,612	-	-	-	-	-	232,993,267
2057	232,993,267	3,063,809	-	-	-	-	-	236,057,076
2058	236,057,076	2,056,170	-	-	-	-	-	238,113,246
2059	238,113,246	1,028,055	-	-	-	-	-	239,141,300
	618,342,753	-	-	(467,802,598)	(20,000,000)	(15,000,000)	30,414,020	

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Drinking Water - Existing Loan Breakdown (Net of Admin Fees)

FYE	Total Pledged & Non-Pledged Loans		Other Loans		Total Drinking Water Loans		
	Principal	Interest	Principal	Interest	Principal	Interest	Total P&I
2019	9,151,470	2,400,388	-	-	9,151,470	2,400,388	11,551,858
2020	9,547,462	2,359,066	-	-	9,547,462	2,359,066	11,906,529
2021	10,265,950	2,222,761	-	-	10,265,950	2,222,761	12,488,711
2022	11,148,113	2,133,445	-	-	11,148,113	2,133,445	13,281,558
2023	11,441,846	1,954,562	-	-	11,441,846	1,954,562	13,396,408
2024	11,316,203	1,770,367	-	-	11,316,203	1,770,367	13,086,570
2025	11,039,932	1,584,749	-	-	11,039,932	1,584,749	12,624,681
2026	10,817,482	1,399,364	-	-	10,817,482	1,399,364	12,216,846
2027	9,783,695	1,219,668	-	-	9,783,695	1,219,668	11,003,362
2028	8,743,644	1,051,806	-	-	8,743,644	1,051,806	9,795,449
2029	7,339,106	896,853	-	-	7,339,106	896,853	8,235,959
2030	6,945,193	766,345	-	-	6,945,193	766,345	7,711,538
2031	6,447,091	644,408	-	-	6,447,091	644,408	7,091,499
2032	5,971,901	529,862	-	-	5,971,901	529,862	6,501,763
2033	5,168,148	427,205	-	-	5,168,148	427,205	5,595,353
2034	4,360,131	335,386	-	-	4,360,131	335,386	4,695,517
2035	3,342,658	255,717	-	-	3,342,658	255,717	3,598,375
2036	2,741,202	192,105	-	-	2,741,202	192,105	2,933,307
2037	2,100,360	140,813	-	-	2,100,360	140,813	2,241,173
2038	1,111,081	112,325	-	-	1,111,081	112,325	1,223,406
2039	1,019,630	85,765	-	-	1,019,630	85,765	1,105,394
2040	968,477	66,447	-	-	968,477	66,447	1,034,923
2041	723,829	49,326	-	-	723,829	49,326	773,155
2042	390,933	36,373	-	-	390,933	36,373	427,306
2043	195,240	28,972	-	-	195,240	28,972	224,212
2044	201,141	25,038	-	-	201,141	25,038	226,179
2045	207,221	20,985	-	-	207,221	20,985	228,206
2046	213,484	16,809	-	-	213,484	16,809	230,293
2047	219,936	12,508	-	-	219,936	12,508	232,444
2048	226,584	8,076	-	-	226,584	8,076	234,660
2049	233,443	3,510	-	-	233,443	3,510	236,954
2050	-	-	-	-	-	-	-
	153,382,586	22,751,003	-	-	153,382,586	22,751,003	176,133,588

**Arkansas Development Finance Authority**  
**Drinking Water SRF**  
**Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)**

***Projected Drinking Water Debt Service***

FYE	Existing Series 2011C Drinking Water Debt Service	Future Drinking Water Debt Service	Total Drinking Water Debt Service
2019	3,017,488	-	3,017,488
2020	2,767,238	2,480,000	5,247,238
2021	2,583,988	5,624,569	8,208,556
2022	2,399,738	7,567,564	9,967,302
2023	2,304,738	9,551,968	11,856,705
2024	2,209,738	11,578,230	13,787,967
2025	2,089,738	13,594,294	15,684,032
2026	1,985,988	15,621,149	17,607,137
2027	1,035,375	17,629,453	18,664,828
2028	776,250	19,637,757	20,414,007
2029	-	21,646,061	21,646,061
2030	-	23,654,365	23,654,365
2031	-	25,662,669	25,662,669
2032	-	27,670,973	27,670,973
2033	-	29,679,277	29,679,277
2034	-	31,687,581	31,687,581
2035	-	33,640,884	33,640,884
2036	-	35,520,201	35,520,201
2037	-	37,399,518	37,399,518
2038	-	39,278,835	39,278,835
2039	-	41,158,152	41,158,152
2040	-	41,772,469	41,772,469
2041	-	37,210,401	37,210,401
2042	-	35,329,905	35,329,905
2043	-	33,408,001	33,408,001
2044	-	31,444,240	31,444,240
2045	-	29,438,175	29,438,175
2046	-	27,471,320	27,471,320
2047	-	25,463,016	25,463,016
2048	-	23,454,712	23,454,712
2049	-	21,446,408	21,446,408
2050	-	19,438,104	19,438,104
2051	-	17,429,801	17,429,801
2052	-	15,421,497	15,421,497
2053	-	13,413,193	13,413,193
2054	-	11,404,889	11,404,889
2055	-	9,396,585	9,396,585
2056	-	7,517,268	7,517,268
2057	-	5,637,951	5,637,951
2058	-	3,758,634	3,758,634
2059	-	1,879,317	1,879,317
	<b>21,170,275</b>	<b>862,019,386</b>	<b>883,189,661</b>



Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Future Pledged Direct Loan Repayment

Issue Date	Jan-19	Jan-20	Jan-21	Jan-22	Jan-23	Jan-24	Jan-25	Jan-26	Jan-27	Jan-28	Jan-29	Jan-30	Jan-31	Jan-32	Jan-33	Jan-34	Jan-35	Jan-36	Jan-37	Jan-38	Total
Amount	40,000,000	40,000,000	36,238,724	15,145,141	19,941,732	19,318,609	20,029,329	20,604,798	21,247,494	21,244,358	21,430,051	21,381,381	22,256,525	21,639,307	20,803,751	20,377,832	20,798,534	21,122,209	21,425,717	21,424,816	467,302,298
Interest Rate	1.81%	1.99%	2.16%	2.34%	2.51%	2.69%	2.88%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	3.04%
Interest Start Date	12/01/19	12/01/20	12/01/21	12/01/22	12/01/23	12/01/24	12/01/25	12/01/26	12/01/27	12/01/28	12/01/29	12/01/30	12/01/31	12/01/32	12/01/33	12/01/34	12/01/35	12/01/36	12/01/37	12/01/38	12/01/38
Principal Periods	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Principal Start Date	06/01/21	06/01/22	06/01/23	06/01/24	06/01/25	06/01/26	06/01/27	06/01/28	06/01/29	06/01/30	06/01/31	06/01/32	06/01/33	06/01/34	06/01/35	06/01/36	06/01/37	06/01/38	06/01/39	06/01/40	
Final Maturity Date	06/01/40	06/01/41	06/01/42	06/01/43	06/01/44	06/01/45	06/01/46	06/01/47	06/01/48	06/01/49	06/01/50	06/01/51	06/01/52	06/01/53	06/01/54	06/01/55	06/01/56	06/01/57	06/01/58	06/01/59	06/01/59
06/01/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/20	724,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	724,000
06/01/21	2,401,645	796,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,197,645
06/01/22	2,401,645	2,443,909	783,188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,628,742
06/01/23	2,401,645	2,443,909	2,251,850	377,820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,475,224
06/01/24	2,401,645	2,443,909	2,251,850	1,020,140	477,947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,595,491
06/01/25	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	525,051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,865,221
06/01/26	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	572,839	-	-	-	-	-	-	-	-	-	-	-	-	-	11,187,653
06/01/27	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	589,297	-	-	-	-	-	-	-	-	-	-	-	-	12,533,032
06/01/28	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	607,678	-	-	-	-	-	-	-	-	-	-	-	13,918,514
06/01/29	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	607,589	-	-	-	-	-	-	-	-	-	-	15,328,168
06/01/30	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	612,925	-	-	-	-	-	-	-	-	-	16,743,040
06/01/31	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	625,813	-	-	-	-	-	-	-	-	18,177,844
06/01/32	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	636,537	-	-	-	-	-	-	-	19,640,382
06/01/33	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	620,320	-	-	-	-	-	-	21,100,856
06/01/34	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	594,987	-	-	-	-	-	22,514,594
06/01/35	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	634,686	-	-	-	-	23,934,595
06/01/36	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	632,275	-	-	-	25,340,698
06/01/37	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	642,115	-	-	26,753,701
06/01/38	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	651,342	-	28,187,927
06/01/39	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	651,314	29,633,376
06/01/40	2,401,645	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	30,427,477
06/01/41	-	2,443,909	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	28,025,832
06/01/42	-	-	2,251,850	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	25,581,923
06/01/43	-	-	-	1,020,140	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	23,330,073
06/01/44	-	-	-	-	1,222,627	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	22,309,933
06/01/45	-	-	-	-	-	1,274,644	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	21,087,307
06/01/46	-	-	-	-	-	-	1,328,920	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	19,812,662
06/01/47	-	-	-	-	-	-	-	1,367,102	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	18,483,742
06/01/48	-	-	-	-	-	-	-	-	1,409,743	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	17,116,641
06/01/49	-	-	-	-	-	-	-	-	-	1,409,536	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	15,706,898
06/01/50	-	-	-	-	-	-	-	-	-	-	1,421,916	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	14,297,362
06/01/51	-	-	-	-	-	-	-	-	-	-	-	1,451,815	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	12,875,446
06/01/52	-	-	-	-	-	-	-	-	-	-	-	-	1,476,692	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	11,423,632
06/01/53	-	-	-	-	-	-	-	-	-	-	-	-	-	1,439,071	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	9,946,940
06/01/54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,380,302	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	8,507,869
06/01/55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,408,513	1,403,163	1,425,000	1,445,476	1,445,415	7,127,568
06/01/56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,403,163	1,425,000	1,445,476	1,445,415	5,719,054
06/01/57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,425,000	1,445,476	1,445,415	4,315,891
06/01/58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,445,476	1,445,415	2,890,891
06/01/59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,445,415	1,445,415
<b>Total</b>	<b>48,756,899</b>	<b>49,674,173</b>	<b>45,820,197</b>	<b>20,780,610</b>	<b>24,930,478</b>	<b>26,017,936</b>	<b>27,151,239</b>	<b>27</b>													

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Future 10-Year No Interest Loans: Repayment:

Issue Date	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25	Jun-26	Jun-27	Jun-28	Jun-29	Jun-30	Jun-31	Jun-32	Jun-33	Jun-34	Jun-35	Jun-36	Jun-37	Jun-38	Total
Amount	0	10,000,000	10,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,000,000
Interest Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Interest Start date	12/01/19	12/01/20	12/01/21	12/01/22	12/01/23	12/01/24	12/01/25	12/01/26	12/01/27	12/01/28	12/01/29	12/01/30	12/01/31	12/01/32	12/01/33	12/01/34	12/01/35	12/01/36	12/01/37	12/01/38	
Principal Periods	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Principal Start Date	06/01/21	06/01/22	06/01/23	06/01/24	06/01/25	06/01/26	06/01/27	06/01/28	06/01/29	06/01/30	06/01/31	06/01/32	06/01/33	06/01/34	06/01/35	06/01/36	06/01/37	06/01/38	06/01/39	06/01/40	
Final Maturity Date	06/01/30	06/01/31	06/01/32	06/01/33	06/01/34	06/01/35	06/01/36	06/01/37	06/01/38	06/01/39	06/01/40	06/01/41	06/01/42	06/01/43	06/01/44	06/01/45	06/01/46	06/01/47	06/01/48	06/01/49	
06/01/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/22	-	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000,000
06/01/23	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/24	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/25	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/26	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/27	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/28	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/29	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/30	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/31	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000
06/01/32	-	-	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000,000
06/01/33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	10,000,000	10,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,000,000

Arkansas Development Finance Authority  
 Drinking Water SEF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Future 20-Year No Interest Loans: Repayments

Issue Date	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25	Jun-26	Jun-27	Jun-28	Jun-29	Jun-30	Jun-31	Jun-32	Jun-33	Jun-34	Jun-35	Jun-36	Jun-37	Jun-38	Total
Amount	0	10,000,000	5,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,000,000
Interest Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Interest Start Date	12/01/19	12/01/20	12/01/21	12/01/22	12/01/23	12/01/24	12/01/25	12/01/26	12/01/27	12/01/28	12/01/29	12/01/30	12/01/31	12/01/32	12/01/33	12/01/34	12/01/35	12/01/36	12/01/37	12/01/38	
Principal Periods	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Principal Start Date	06/01/21	06/01/22	06/01/23	06/01/24	06/01/25	06/01/26	06/01/27	06/01/28	06/01/29	06/01/30	06/01/31	06/01/32	06/01/33	06/01/34	06/01/35	06/01/36	06/01/37	06/01/38	06/01/39	06/01/40	
Final Maturity Date	06/01/40	06/01/41	06/01/42	06/01/43	06/01/44	06/01/45	06/01/46	06/01/47	06/01/48	06/01/49	06/01/50	06/01/51	06/01/52	06/01/53	06/01/54	06/01/55	06/01/56	06/01/57	06/01/58	06/01/59	
06/01/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/22	-	500,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500,000
06/01/23	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/24	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/25	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/26	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/27	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/28	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/29	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/30	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/31	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/32	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/33	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/34	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/35	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/36	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/37	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/38	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/39	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/40	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/41	-	500,000	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750,000
06/01/42	-	-	250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250,000
06/01/43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	10,000,000	5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000,000

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Future DW Leveraged Loan Repayment (i.e. Bond Funded)

Issue Date:	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25	Jun-26	Jun-27	Jun-28	Jun-29	Jun-30	Jun-31	Jun-32	Jun-33	Jun-34	Jun-35	Jun-36	Jun-37	Jun-38	Total	
Par Amount:	61,070,000	24,625,000	24,625,000	24,625,000	24,625,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	23,640,000	21,670,000	21,670,000	21,670,000	21,670,000	21,670,000	504,320,000
Interest Rate:	1.31%	1.99%	2.16%	2.34%	2.51%	2.69%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	3.04%	3.04%	3.04%	3.04%	3.04%	3.04%	
Interest Start:	12/01/19	12/01/20	12/01/21	12/01/22	12/01/23	12/01/24	12/01/25	12/01/26	12/01/27	12/01/28	12/01/29	12/01/30	12/01/31	12/01/32	12/01/33	12/01/34	12/01/35	12/01/36	12/01/37	12/01/38		
Term:	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Principal Start:	06/01/21	06/01/22	06/01/23	06/01/24	06/01/25	06/01/26	06/01/27	06/01/28	06/01/29	06/01/30	06/01/31	06/01/32	06/01/33	06/01/34	06/01/35	06/01/36	06/01/37	06/01/38	06/01/39	06/01/40		
Final Maturity:	06/01/40	06/01/41	06/01/42	06/01/43	06/01/44	06/01/45	06/01/46	06/01/47	06/01/48	06/01/49	06/01/50	06/01/51	06/01/52	06/01/53	06/01/54	06/01/55	06/01/56	06/01/57	06/01/58	06/01/59	06/01/60	

FYE	Par	Total																				
2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020	1,105,367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,105,367
2021	3,666,711	490,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,156,749
2022	3,666,711	1,504,531	531,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,703,143
2023	3,666,711	1,804,531	1,529,337	576,225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,276,805
2024	3,666,711	1,804,531	1,529,337	1,555,948	618,088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,874,515
2025	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	635,916	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,473,499
2026	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	676,104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,077,435
2027	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	676,104	-	-	-	-	-	-	-	-	-	-	-	-	-	13,625,918
2028	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	-	-	-	-	-	15,194,402
2029	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	-	-	-	-	16,762,885
2030	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	-	-	-	18,331,368
2031	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	-	-	19,899,852
2032	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	-	-	21,468,335
2033	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	-	23,036,818
2034	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	676,104	-	-	-	-	-	-	-	24,605,302
2035	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	638,768	-	-	-	-	-	-	26,156,449
2036	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	638,768	-	-	-	-	-	27,618,406
2037	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	638,768	-	-	29,080,362
2038	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	638,768	-	30,542,318
2039	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	638,768	32,004,275
2040	3,666,711	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	32,807,463
2041	-	1,804,531	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	29,140,732
2042	-	-	1,529,337	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	27,636,220
2043	-	-	-	1,555,948	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	26,106,883
2044	-	-	-	-	1,581,116	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	24,551,035
2045	-	-	-	-	-	1,543,788	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	22,969,920
2046	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	21,426,132
2047	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	19,877,649
2048	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	18,289,165
2049	-	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	16,720,682
2050	-	-	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	15,152,199
2051	-	-	-	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	13,583,715
2052	-	-	-	-	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	12,015,232
2053	-	-	-	-	-	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	10,446,749
2054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,568,483	1,568,483	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	8,878,265
2055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,461,956	1,461,956	1,461,956	1,461,956	1,461,956	7,309,782
2056	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,461,956	1,461,956	1,461,956	1,461,956	5,847,825
2057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,461,956	1,461,956	1,461,956	4,385,869
2058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,461,956	1,461,956	2,923,913
2059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,461,956	1,461,956
74,439,596	30,880,663	31,118,645	31,693,178	32,240,399	31,511,672	32,045,771	32,045,771	32,045,771	32,045,771	32,045,771	32,045,771	32,045,771	32,045,771	32,045,771	32,045,771	29,897,895	29,897,895	29,897,895	29,897,895	29,897,895	29,897,895	669,485,569

Arkansas Development Finance Authority  
 Drinking Water SRF  
 Preliminary 2018 Capacity Analysis (Max Bond Issuance: FY2019)

Future Bond Debt Service

Issue Date	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25	Jun-26	Jun-27	Jun-28	Jun-29	Jun-30	Jun-31	Jun-32	Jun-33	Jun-34	Jun-35	Jun-36	Jun-37	Jun-38	Total	
Amount	62,000,000	25,000,000	25,000,000	25,000,000	25,000,000	24,000,000	24,000,000	24,000,000	24,000,000	24,000,000	24,000,000	24,000,000	24,000,000	24,000,000	24,000,000	22,000,000	22,000,000	22,000,000	22,000,000	22,000,000	22,000,000	512,000,000
Interest Rate	4.00%	4.25%	4.50%	4.75%	5.00%	5.25%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	
Interest Start Date	12/01/19	12/01/20	12/01/21	12/01/22	12/01/23	12/01/24	12/01/25	12/01/26	12/01/27	12/01/28	12/01/29	12/01/30	12/01/31	12/01/32	12/01/33	12/01/34	12/01/35	12/01/36	12/01/37	12/01/38	12/01/38	
Principal Periods	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Principal Start Date	06/01/21	06/01/22	06/01/23	06/01/24	06/01/25	06/01/26	06/01/27	06/01/28	06/01/29	06/01/30	06/01/31	06/01/32	06/01/33	06/01/34	06/01/35	06/01/36	06/01/37	06/01/38	06/01/39	06/01/40	06/01/40	
Final Maturity Date	06/01/40	06/01/41	06/01/42	06/01/43	06/01/44	06/01/45	06/01/46	06/01/47	06/01/48	06/01/49	06/01/50	06/01/51	06/01/52	06/01/53	06/01/54	06/01/55	06/01/56	06/01/57	06/01/58	06/01/59	06/01/59	
06/01/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/01/20	2,480,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,480,000
06/01/21	4,562,069	1,062,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,624,569
06/01/22	4,562,069	1,880,496	1,125,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,567,564
06/01/23	4,562,069	1,880,496	1,921,904	1,187,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,551,968
06/01/24	4,562,069	1,880,496	1,921,904	1,963,762	1,250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,578,230
06/01/25	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,260,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,594,294
06/01/26	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	1,320,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,621,149
06/01/27	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	1,320,000	-	-	-	-	-	-	-	-	-	-	-	-	-	17,629,453
06/01/28	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	-	-	-	-	-	-	19,637,757
06/01/29	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	-	-	-	-	-	21,646,061
06/01/30	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	-	-	-	-	23,654,365
06/01/31	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	-	-	-	25,662,669
06/01/32	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	-	-	27,670,973
06/01/33	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	-	29,679,277
06/01/34	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,320,000	-	-	-	-	-	-	31,687,581
06/01/35	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,265,000	-	-	-	-	-	33,640,884
06/01/36	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,265,000	-	-	-	35,520,201
06/01/37	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,265,000	-	-	37,399,518
06/01/38	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,265,000	-	39,278,835
06/01/39	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,265,000	41,158,152
06/01/40	4,562,069	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	43,037,469
06/01/41	-	1,880,496	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	37,210,401
06/01/42	-	-	1,921,904	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	35,329,905
06/01/43	-	-	-	1,963,762	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	33,408,001
06/01/44	-	-	-	-	2,006,065	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	31,444,240
06/01/45	-	-	-	-	-	1,966,855	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	29,438,175
06/01/46	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	27,471,320
06/01/47	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	25,463,016
06/01/48	-	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	23,454,712
06/01/49	-	-	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	21,446,408
06/01/50	-	-	-	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	19,438,104
06/01/51	-	-	-	-	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	17,429,801
06/01/52	-	-	-	-	-	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	15,421,497
06/01/53	-	-	-	-	-	-	-	-	-	-	-	-	-	2,008,304	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	13,413,193
06/01/54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,008,304	2,008,304	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	11,404,889
06/01/55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	9,396,585
06/01/56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,879,317	1,879,317	1,879,317	1,879,317	1,879,317	7,317,268
06/01/57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,879,317	1,879,317	1,879,317	1,879,31	

**VII. Appendix C (Arkansas Department of Health)**



**ARKANSAS DEPARTMENT OF HEALTH  
Center for Local Public Health  
Environmental Health Branch  
Engineering Section**

**ANNUAL DWSRF REPORT  
STATE FISCAL YEAR 2018  
(JULY 1, 2017 through JUNE 30, 2018)**

**AUGUST 2018**

**ADH Table of Contents**

I. INTRODUCTION..... 51

II. STATE PROGRAM MANAGEMENT SET-ASIDE ..... 52

    Sub-Element/Category: Assistance to Public Water System Supervision (PWSS) ..... 52

        Goal: Provide PWSS programs that will bring PWSs into or keep them in compliance. .... 52

III. SMALL SYSTEM TECHNICAL ASSISTANCE ..... 55

    Sub-Element/Category: Small Systems Technical Assistance ..... 56

        Goal: Provide technical assistance to small water systems to improve system capacity for compliance with drinking water regulations..... 56

IV. LOCAL ASSISTANCE AND OTHER STATE PROGRAMS SET-ASIDE..... 57

    1. Wellhead Protection Program Implementation..... 57

        Sub-Element/Category: Wellhead Protection Program ..... 57

            Goal: Promote and continue to implement wellhead protection program efforts ..... 57

    2. Capacity Development Strategy Assistance ..... 60

        Sub-Element/Category: Capacity Development Program ..... 60

            Goal: Provide technical assistance to water systems to improve system capacity for compliance with drinking water regulations..... 60

ADH - ATTACHMENT A..... 64

    Expenditure Summary..... 65

    Position Effort Funding Summary ..... 68

    Set-Aside Summary ..... 71

    Salary Disbribution ..... 72

ADH - ATTACHMENT B..... 74

    Travel Reimbursements Summary ..... 75

## **I. INTRODUCTION**

The Arkansas Department of Health (ADH), Engineering Section (Engineering) is the primacy agency for administering the provisions of the Federal Safe Drinking Water Act (SDWA) in the State of Arkansas. Engineering is responsible for administering the State Public Water Supply Supervision Program within the ADH.

The Drinking Water State Revolving Fund (DWSRF) program came about as a part of the 1996 Amendments to the SDWA. The Arkansas Natural Resources Commission (ANRC) and the ADH signed an Interagency Memorandum of Agreement on administration of the DWSRF grant. Under this MOA, the ANRC administers the Loan Fund and the Administrative (4%) set-aside portions of the DWSRF. ADH Engineering administers the State Program Management (10%), Small System Technical Assistance (2%), and Local Assistance & Other State Programs (15%) set-asides portions of the DWSRF.

The purpose of this document is to present program activity progress and expenditures during State Fiscal Year 2018. A table is included in Attachment A which shows expenditures by set-aside and grant year. One notable departure from standard federal character definitions is that the federal definition of Equipment includes purchases of equipment which exceed \$5,000.00 and the state definition includes purchases which exceed \$2,500.00. The state definition is used in this report for identifying Equipment.

(Remainder of Page Intentionally left blank)

## II. STATE PROGRAM MANAGEMENT SET-ASIDE

Section 1452(g)(2) authorizes the State to use up to 10% of its capitalization grant in the form of the State Program Management Set-Aside (SPM) for implementing drinking water program related activities. Engineering requested the full amount of State Program Management Set-Aside funds in its SRF-07, SRF-08, SRF-13, SRF-14, SRF-15, SRF-16 and SRF-17 work plans and a portion of the State Program Management Set-Aside in the SRF-09, SRF-10 and SRF-12 work plans. The summary table in Attachment A shows expenditures during SFY18.

Prior to this year Engineering was required to provide a dollar-for-dollar match for this set-aside in order to use these funds. The Water Infrastructure Improvement Act (WIIN) of 2016, P.L 144-322 was implemented during this past year. This Act eliminated the State match requirement for this set-aside. Since the WIIN Act became law during the middle of SFY17, match documentation is not being provided in this or future SRF Annual Reports.

Expenditures from this set-aside includes such items as office equipment and supplies, major laboratory equipment purchases, contract laboratory services, staff salaries and fringe, training and travel, PCs, upgrades to the Section's LAN system, routine O&M, etc. Refer to Attachment B for a more detailed listing of items.

The Goals and Objectives, Proposed Outputs and Deliverables as outlined in the work plan and the SFY18 Outputs applied to the State Program Management Set-Aside category are summarized below:

### **Sub-Element/Category: Assistance to Public Water System Supervision (PWSS)**

**Goal: Provide PWSS programs that will bring PWSs into or keep them in compliance.**

OBJECTIVE 1: Provide public water system supervision to ensure compliance with the SDWA .	Administering Agency: ADH	Task Performing Agency: ADH SDWA Citation: 1452(g)(2)(A)
Activities (Outputs)	Collaborators	Schedule for Completing Activities - Rate of Completion
1. Provide administrative support for the ADH staff to supervise PWSs such as maintaining files, developing standard operating procedures and/or guidance, travel coordination, and other administrative tasks to maintain primacy delegation and meet reporting requirements of SDWA.	ADH	On-going
2. Perform Sanitary Surveys and prepare report of sanitary and regulatory deficiencies. Respond to regulatory needs and deficiencies as needed.	ADH, PWS	On-going
3. Implement new and enforce existing EPA and ADH Water Regulations.	ADH	On-going
4. Provide technical assistance and training to water operators for existing and upcoming regulations	ADH, PWS	As Needed
5. Review compliance data for compliance with state and federal drinking water regulations. Identify violations and notify PWSs of all violations.	ADH	On-going
6. Review of plans and specifications as required under State regulations	ADH	On-going
7. Administer EPA grants and track/facilitate expenditures.	ADH	On-going
8. Acquire laboratory equipment, as needed, to replace existing instruments that are approaching the end of their service life and to allow increased productivity of drinking water analysis, in order, to provide capacity for analysis of new analytes in the current and future UCMR rules, AWOP activities, pre-rule investigative monitoring, source water monitoring, etc.	ADH	On-going
9. Upgrade to the most current versions of SWDIS/State, FedRep, Lab to State and XML Sampling. Maintain and update other miscellaneous databases: such as Operator Certification, Bacteriological Sample tracking, Sanitary Survey Tracking, etc.	ADH	On-going
<b>Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA's Annual PWSS Program Evaluation.</b>		

Outputs<sup>1</sup> – to be documented in Annual Reports:

Output Type	Quantitative/Qualitative Description of Proposed Output outlined in Work Plan.	Deliverables outlined in Work Plan.	SFY 18 Outputs
Programmatic	Maintenance of state primacy delegation.	ADH retains primacy.	Primacy has been maintained
	Staff to administer EPA grants and track/facilitate expenditures and ACH reimbursements.	Document and track grant expenditures	See Appendix A
	Meeting EPA reporting requirements under the SDWA.	Document and track PWS compliance and enforcement actions	The following enforcement actions were taken and tracked: Violation Determined – 1,003 and PN requested – 699, PN verification received 391, WAOs – 65; AOs – 44 , CO – 31
	Conversion of Engineering's legacy data systems to SDWIS/State. These databases will include: Water Operator Certification tracking, Bacteriological Monitoring Bottle Mailings, Sanitary Survey tracking, Boil Water Order Notification tracking, and SWAP applications.	SDWIS/Fed reporting of all Inventory, Violations, Enforcement, Monitoring and Milestone data within 45 days of end of each quarter	SDWIS / Fed reporting completed quarterly as required. Deadlines for submittal: 8/15/17, 11/15/17, 2/15/18, 5/15/18 Dates submitted: 8/7/18, 11/3/17, 2/6/18, 5/11/18  All SDWIS products are using the latest SDWIS State release as of July 2018. Use of legacy ARKPWS97 is diminishing as use of the SDWIS tables increase. ARKPWS97 is not used for compliance grading.
		All State reports required under the SDWA will be submitted and within the required timeframes.	Annual and miscellaneous reports were submitted as requested.
Environmental	Plan and specification reviews as required under the state regulations. Complete more than 90% of plan reviews within required timeframe (est. 200 plans)	Log and track an estimated 1400 plans and specifications annually	1323 total plans received, logged and tracked resulting in 1834 total reviews.
		Field Surveillance Staff - Review an estimated 200 plans and specifications	SPM Staff conducted 466.5 review assignments on 286 plans and specifications.
		Technical Support Staff – Review an estimated 25 plans and specifications	SPM Staff conducted 34 review assignments on four plans.
	Conducting sanitary surveys and other inspections at PWSs	Complete more than 90% of sanitary surveys that are due in the scheduled year. (An estimated 100 surveys to be completed by Field Surveillance staff.)	286 Sanitary Surveys were completed by Field Surveillance staff, 104 of these were completed by SPM funded positions.
		Complete more than 90% of sanitary surveys that are due in the scheduled year. (An estimated 50 surveys to be completed by Technical Support staff.)	10.104 Sanitary Surveys were completed by Technical Support Staff. 11. Technical Support Staff also participated in 1 CPE & 3 Quarterly AWOP meetings.
		Other Inspections / Investigations at PWSs	Field Surveillance & Technical Staff provided direct one-on-one technical assistance on 498 occasions. 12.——
Environmental	Pre-planning for and implementation of new regulations associated with the SDWA.	New EPA/SDWA regulations will be implemented within the prescribed timeframes.	All new rules / requirements are implementation on schedule and generally ahead of schedule. <ul style="list-style-type: none"> <li>• LT2 Bin 2 compliance is being monitored monthly for 7 PWS's. Each Bin 2 System (4 large and 3 small) is obtaining 1.0-log of credit by documenting filtration performance in their combined and individual filters.</li> <li>• Stage 2 DBP – 14 monitoring plans completed / approved, letters advising systems of DPB results sent to PWSs – 3,713 Stage 1 &amp; Stage 2 compliance status letters.</li> <li>• A total of 124 OEL exceedance notifications were issued</li> </ul>

			and 124 OEL reports were reviewed.
Environmental	Training and technical assistance for water system operators and managers specific to new/upcoming SDWA requirements. Assistance will be provided in classroom and one-on-one settings, as well as by mail outs.	ADH sponsored water operator training for new/upcoming SDWA regulations.	Field Surveillance & Technical Staff provided direct one-on-one technical assistance on 156 occasions.
	Technical assistance to water operators.	Provide technical assistance to operators	Combined Man-hours of Technical Assistance, Complaint Investigation; and Operator Training: Field Surveillance Staff – 3,320 man-hours
		Document technical assistance and ADH sponsored training sessions (est. 26 training session per year)	15 mandatory compliance schools were offered. Twenty-six exam sessions were conducted, plus on demand computer based exam capability was offered.
		Oversight and coordination of an estimated two (2) fluoride schools/year	Conducted two (2) fluoride start-up inspections with associated technical assistance. One training session specific to fluoride was conducted for ADH staff.

<sup>1</sup>The term "Output" means an environmental activity, effort and/or associated work products related to an environmental goal or objective, what will be produced or provided over a period of time or by a specified date. Outputs may be quantitative or qualitative but must be measurable during an assistance agreement funding period." EPA Order Classification No.: 5700.7

**Outcomes/Environmental results – to be documented in Annual Reports:**

<b>Outcome Type</b>	<b>Quantitative Description of Outcome</b>	<b>SFY 18</b>
Programmatic	ADH retains primacy of SDWA and completes all required reports	Primacy maintained and all required reports were completed.
Environmental	85% <sup>2</sup> of the community PWSs in the State will meet all applicable health-based drinking water standards.	92% of Community Water Systems met all health based standards during SFY 18.
Programmatic	Maintain certified operators at 95% of community PWSs.	98% of Community PWSs maintained operator certification during SFY 18.

<sup>1</sup>The term "outcome" means the result, effect or consequence that will occur from carrying out an environmental program or activity that is related to an environmental or programmatic goal or objective. Outcomes may be environmental, behavioral, health-related or programmatic in nature, must be quantitative, and may not necessarily be achievable within an assistance agreement funding period." EPA Order Classification No.: 5700.7

<sup>2</sup> The number of active community water systems at time of submittal is 693.

## **SUMMARY**

As can be seen from the activities and measurables reported in this section, substantial progress was made in the State's drinking water program. The activities conducted using the SPM set-aside funds are an integral part of the State's overall drinking water Public Water System Supervision Program. Thanks in part to the SPM set-aside funds, the Engineering Section was effectively implementing all required state and federal regulations promulgated to date and has been successful in retaining its Primacy status with EPA.

## **III. SMALL SYSTEM TECHNICAL ASSISTANCE**

Section 1452(g)(2) allows the State to use up to 2% of its capitalization grant for implementing technical assistance activities of Section 1442(e). Engineering requested the full amount of Small System Technical Assistance (SSTA) Set-Aside funds in its SRF-07 work plan. Engineering reserved or banked 2% of the funds from the ARRA, SRF-08, SRF-09, SRF-10, SRF-11, SRF-12, SRF-13, SRF-14, SRF-15 & SRF-16 capitalization grants for future use. Engineering reclaimed a total of \$308,820 from SSTA banked funds for use during SFY17 (i.e. \$38,701, \$212,390, \$29,452 and \$28,277 from the DWSRF 98, 99, 01 and 02 Capitalization Grants, respectively). In reclaiming these funds all the SSTA reserved funds for these Capitalization Grants were zeroed or closed out. Additionally, the SRF-07 funds were fully expended during SFY13. For the balance of SFY13, funding for the SSTA contracts was transferred to the Local Assistance – Capacity Development set-aside.

Technical assistance will be accomplished through contract services. As required under State procedures, Requests for Proposals were prepared to solicit interested contractors to provide the necessary assistance under the oversight of Engineering.

Two technical assistance contracts, both which included provisions for six one-year extensions, were put into place for SFY12. These contracts became effective on July 1, 2011. The technical assistance contracts were funded for evaluating and improving the "capacity development" adequacy of some small water systems using these set-aside funds. One contract, aimed at Technical and Operational aspects, was awarded to the Arkansas Rural Water Association. The second contract, aimed at Financial and Managerial aspects, was also awarded to Arkansas Rural Water Association. Both contracts operate in the same manner. The contracts are implemented in a "circuit rider" format with on-site visits to assess individual water system needs, provide corrective action plans addressing identified deficiencies, and provide technical assistance in correcting these deficiencies. The Contractor is given a prioritized list of water systems to visit. The Contractor visits systems to improve their financial and managerial capacity by assisting with rate studies, budget analysis, board member training, asset management training, long range plans, and emergency response plans. The Contractor also provides on-site technical assistance to water operators to improve the technical and operational capacity of water systems based on assessments provided by the State. SFY18 is the final year for these contracts. It is expected that two similar contracts will be put in place for the foreseeable future.

A third technical assistance contract also with provisions for six one-year extensions was put into place beginning on July 1, 2011. This contract is to provide assistance to small public water systems in mapping their water system infrastructure (e.g.; meters, valves, pump stations, sources, and other facilities, etc.) with GPS equipment and to teach them how to implement a GIS database. A GIS system can be developed to perform a multitude of tasks, such as assisting with inventories and locations for maintenance, recognizing trends, and indicating needs for capacity development. SFY18 is the final year for this contract. This contract will not be renewed at this time.

The Goals and Objectives, Proposed Outputs and Deliverables as outlined in the work plan and the SFY18 Outputs applied to the Small System Technical Assistance Set-Aside category are summarized below:

**Sub-Element/Category: Small Systems Technical Assistance**

**Goal: Provide technical assistance to small water systems to improve system capacity for compliance with drinking water regulations**

OBJECTIVE 1: To provide assistance to enable small water systems serving a population <10,000 to achieve and maintain compliance with the Safe Drinking Water Act (SDWA) and State Drinking Water Regulations, work on specific water systems with the Capacity Development Program and produce high-quality drinking water for the long term.		Administering Agency: ADH	Task Performing Agency: ADH
			SDWA Citation: 1452(g)(2)
Activities (Outputs)		Collaborators	Schedule for Completing Activities - Rate of Completion
1. Assistance and training to PWSs with completed capacity assessments that were identified as requiring capacity assistance.		ADH, PWS, Contractors	As Needed
2. Assistance and training to PWSs identified by the ETT.		ADH, PWS, Contractors	As Needed
3. Assistance and training to PWSs to bring about regionalization.		ADH, PWS, Contractors	On-going
4. Assistance and training to PWSs with obtaining a certified operator.		ADH, PWS, Contractors	On-going
5. Board member training to PWS water boards and city councils.		ADH, Contractors	On-going
6. Complete Comprehensive Performance Evaluations on surface water systems that are unable to meet the requirements of the surface water treatment rules, the requirements of the disinfection by-product rules, or request assistance with optimization.		ADH, Contractors	On-going
7. Provide PWSs with infrastructure location and mapping services.		Contractors	On-going
8. Provide monthly reports to Engineering containing the names of PWSs assisted and the type and quantity of assistance provided.		Contractors	Monthly
Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA's Annual PWSS Program Evaluation.			

OBJECTIVE 2: To insure adequate capacity development at each water system for the future.		Administering Agency: ADH	Task Performing Agency: ADH
			SDWA Citation: 1452(g)(2)
Activities (Outputs)		Collaborators	Schedule for Completing Activities - Rate of Completion
1. Perform assessment of each new potential water system to determine if it meets technical, managerial, and financial (TMF) capacity.		ADH, PWS	On-going
2. Perform a TMF assessment of each existing community water system and non-transient non-community water system and rank them based on their TMF assessment.		ADH	On-going
3. Provided assistance to PWSs to improve their TMF capacity. Priority will be given to the systems with the most need.		ADH, Contractors	On-going
4. Track PWSS Progress towards meeting TMF capacity.		ADH	On-going
Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA's Annual PWSS Program Evaluation.			

**Outputs<sup>1</sup> – to be documented in Annual Reports:**

Output Type	Quantitative/Qualitative Description of Proposed Output outlined in Work Plan.	Deliverables outlined in Work Plan.	SFY 18 Outputs
Environmental	Assess individual water system needs, provide corrective action plans addressing identified deficiencies, and provide technical assistance in correcting these deficiencies; systems that are chronic violators and/or have other demonstrated problems	A corrective action plan will be developed with appropriate milestones and delivered to the water system for consideration and implementation. (Re-portable's includes: names of systems contacted & number of on-site visits made, assessment reports completed, strategies developed, man-hours on-site technical assistance rendered, participation in CPEs, and the status of systems following through in implementing the corrective action plans.)	The Contractor submitted a database each month detailing man-hours claimed to the Section along with requests for payment based upon the contract unit prices. During SFY18 the contractor contributed the following:  Financial & Managerial (F&M) Total Hours – 1454.5 Technical & Operational (T&O) Total Hours – 1582 Details below. <ul style="list-style-type: none"> <li>On-site Technical Assistance (man-hours)                             <ul style="list-style-type: none"> <li>13. F&amp;M – 943.5 T&amp;O – 1064</li> </ul> </li> <li>Technical Assistance Office Hours                             <ul style="list-style-type: none"> <li>14. F&amp;M – 198 T&amp;O - 410</li> </ul> </li> <li>Travel Hours</li> </ul>

			15. F&M – 313 T&O – 108
			• AWOP Participation
			16. F&M - 1 T&O - 1

<sup>1</sup>The term "Output" means an environmental activity, effort and/or associated work products related to an environmental goal or objective, what will be produced or provided over a period of time or by a specified date. Outputs may be quantitative or qualitative but must be measurable during an assistance agreement funding period.\* EPA Order Classification No.: 5700.7

**Outcomes/Environmental results – to be documented in Annual Reports:**

Outcome Type	Quantitative Description of Outcome	SFY 18
Environmental	Improve TMF capacity.	ADH had 3 contracts in place with TA providers to assist small water systems with improving TMF capacity through technical assistance and GIS mapping of infrastructure.

<sup>1</sup>The term "outcome" means the result, effect or consequence that will occur from carrying out an environmental program or activity that is related to an environmental or programmatic goal or objective. Outcomes may be environmental, behavioral, health-related or programmatic in nature, must be quantitative, and may not necessarily be achievable within an assistance agreement funding period.\* EPA Order Classification No.: 5700.7

NOTE: Activities under Objective 1 in the SSTA Set-aside work plan and Objective 2 in the Capacity Development Set-aside work plan are dual listed under the Small System Technical Assistance and the Capacity Development Strategy sections of this report. See both section III and IV.2 of this report for a reporting of outputs.

**IV. LOCAL ASSISTANCE AND OTHER STATE PROGRAMS SET-ASIDE**

Section 1452(k) allows the State to use up to 15% of its capitalization grant for implementing activities under this set-aside. The State plans to use the funds in two primary program areas: Wellhead Protection (WHP) Program implementation (1452(k)(D)) and Capacity Development Strategy assistance (1452(k)(B)). The State requested the full amount of the Local Assistance and Other State Programs Set-Aside (Wellhead Protection Program & Capacity Development) funds in the EPA approved work plans for SRF07, SRF08, SRF09, SRF10, SRF13, SRF 14, SRF 15, SRF 16 and SRF 17. The State did not elect to take any set-aside funds for the Wellhead Protection Program in the SRF11 or SRF12 work plan, however, did requested 10% for Capacity Development in each of these work plans. The table in Attachment A shows the expenditures for SFY18.

**1. Wellhead Protection Program Implementation**

Wellhead Protection program activities implemented benefited the State’s Community Water Supply systems by moving them closer to having a substantially implemented Source Water Protection program as defined by the Arkansas Department of Health.

Sub-Element/Category: Wellhead Protection Program

Goal: Promote and continue to implement wellhead protection program efforts

OBJECTIVE 1: Obtain meaningful information on groundwater aquifer characteristics and vulnerabilities and maintain a well operated GIS data system.	Administering Agency: ADH	Task Performing Agency: ADH
		SDWA Citation: 1428 & 1452(k)(1)(D)
Activities (Outputs)	Collaborators	Schedule for Completing Activities - Rate of Completion
1. Collection and updating of GIS field data for PWSs.	ADH, PWS	On-going
2. Obtain or develop electronic data for improving the GIS system and Source Water Assessment Model, to include ground truthing of PSOCs and collect raw water data for use in determining the "B" factor used in the determination of Source Water Susceptibility.	ADH, PWS & Contractors	On-going
3. Maintain and update the Source Water Assessment Model for providing up to date meaningful protection area reports	ADH	On-going
Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA’s Annual PWSS Program Evaluation.		

OBJECTIVE 2: Delineate wellhead protection areas and provide public outreach regarding wellhead and groundwater protection efforts.	Administering Agency: ADH	Task Performing Agency: ADH
		SDWA Citation: 1428 & 1452(k)(1)(D)
Activities (Outputs)	Collaborators	Schedule for Completing Activities - Rate of Completion
1. Provide technical assistance to PWSs development of wellhead protection programs.	ADH, PWS	As Needed
2. Conduct public outreach activities and training sessions to promote wellhead and groundwater protection.	ADH, PWS	As Needed
3. Delineation of wellhead protection areas for new wells and refinement/updates for existing wells.	ADH	On-going
4. Review of proposed point and non-point discharge permit applications for impacts on PWS sources.	ADH	On-going
5. Maintain files and ensure organized approach to source water protection efforts	ADH	On-going
6. Monitoring and review of new wells and vulnerable existing wells for Ground Water Under Direct Influence of surface water	ADH	As Needed
7. Review new well construction siting and construction proposals and provide recommendations on site and drilling, casing and grout depth.	ADH	As Needed
Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA's Annual PWSS Program Evaluation.		

Outputs<sup>1</sup> – to be documented in Annual Reports:

Output Type	Quantitative/Qualitative Description of Proposed Output outlined in Work Plan.	Deliverables outlined in Work Plan.	SFY 18 Outputs
Environmental	Technical assistance to PWSs in public outreach efforts and assistance to the PWS in drafting needed documents, such as ordinances and emergency plans, as requested	Formal and informal technical assistance activities targeted towards ground water protection efforts, as needed or requested.	WHPP staff provided technical assistance activities on approximately 649 occasions. Such activities include: direct one-on-one assistance, public and individual outreach activities, mailing of information and reports as requested.
		<ul style="list-style-type: none"> <li>Assistance, as requested, to PWSs in well siting, aquifer identification, and recommended construction features. Estimate: well siting ~ 5 events/year</li> <li>construction recommendations (casing and grout depth, drill cuttings analysis, other) ~ 5 events/year</li> <li>wellhead deficiency surveys ~ 10 events/year</li> </ul>	WHPP staff provided recommendations on construction of eleven wells. Recommendations include: aquifer determination, construction depth, casing and grouting depths, etc. Additionally, 459 well were evaluated for aquifer identification for the new SWAP model.
Environmental	WHP protection area delineations for new wells and refinement/update of previous delineations	The ADH staff will delineate 20 wellhead protection areas for new or existing sources (# includes revised delineations where new or better data has become available.	Thirteen (13) WHPAs were delineated for 3 PWS and 3 Phase 1 Reports for 13 wells were completed and mailed. The remaining 138 wellhead deficiency surveys were completed by staff and summer interns for inclusion in the enhanced SWAP model (version 2).
Environmental	Collection of field data (e.g.; PSOC locations, wellhead locations, well construction features, etc.) for input into the GIS system	The ADH staff will assist PWSs in conducting and/or updating 30 contaminant source surveys and complete Phase II WHP reports. An estimated 4 PSOC inventories will be conducted per year.	Four (4) Phase 2 SOC inventories were completed & mailed for two (2) wells & 3 surface sources. Additionally, 15 maps were created for 4 PWS/15 wells. 17.
Environmental	The ADH staff will assist all interested PWSs in preparing and implementing Source Water Protection Plans.	1) Provision of assistance to surface water systems in developing source water protection plans, upon request.	Created 85 PSOC maps for ARWA to use during field PSOC inventory collection for 6 PWS/ verification. Produced 85 PSOC inventory maps for ARWAs AWAP / Distributed 9 historical SWAP reports & 5 new reports for review by public water systems. Twenty-eight (28) new Source Water Protection Plans were developed.

Output Type	Quantitative/Qualitative Description of Proposed Output outlined in Work Plan.	Deliverables outlined in Work Plan.	SFY 18 Outputs
Programmatic	Conversion of GIS spatial data from USGS North American Datum 1927 (NAD27) to North American Datum 1983 as time permits		All major projects and data layers are now using the NAD 83 datum. This is consistent with the Arkansas State Land Board which is the state store house for GIS data.
Programmatic	A routinely updated and well-operated GIS system	Routine updates of the GIS system from the databases of other agencies on a monthly basis.	Official and unofficial data sharing agreements are in place with the Clean Water Act agency to obtain and share location data on an as needed basis. GeoStor, the Statewide GIS data storehouse is available, also on an as need basis.
		1) Collect GPS and construction data on newly constructed wells (est. 5/year).	Seven new wells were added to the inventory in SFY18. GPS locations obtained for each. Gathered construction information during plan review process, sanitary surveys, and prep work for WHPA delineations. A total of 466 updates, corrections, or additions were made.
Programmatic	To review proposed point and non-point discharge permit applications to insure, as much as possible, that drinking water sources are protected and affected water systems are kept informed	2) To review and comment on approximately 1,000 proposed projects annually with point and non-point source discharges. 1)	A total of 540 permits were reviewed and comments made to the permitting agency. A breakdown of permit reviews by permit type follows: NPDES – 142, Land Application - 75, Salt Water Disposal (no discharge)–126, No discharge –29, Underground Injection Control– 8, Oklahoma NPDES permits – 5, Tech. Review Committee – 45 , Oil & Gas permits – 118, and Miscellaneous – 40.
Programmatic	To provide a coordinated and organized approach to source water protection efforts in the State	2) The development of standard procedures for conducting hydrologic sensitivity assessments at ground water sources. 2)	In cooperation with the University of Ark and USGS, projects have been developed and agreed upon to enhance the SWAP model sensitivity assessments. These projects are design to update the existing model to current GIS software and to incorporate new / updated GIS layers such as, land use land cover updates, improved soils and geology layers, add facture coverage, investigate computer modeling, etc.

<sup>1</sup>The term "Output" means an environmental activity, effort and/or associated work products related to an environmental goal or objective, what will be produced or provided over a period of time or by a specified date. Outputs may be quantitative or qualitative but must be measurable during an assistance agreement funding period." EPA Order Classification No.: 5700.7

**Outcomes/Environmental results – to be documented in Annual Reports:**

Outcome Type	Quantitative Description of Outcome	SFY 17
Environmental	50% of community PWSs will have substantially implemented Source Water Protection programs.	428 community PWSs (61.6%) with a population of 1,997,805 (70.2%) have substantially implemented SWA programs under the State definition.
Environmental	95% of GWUDI evaluations will be conducted and an initial determination made within 30 days of the evaluation.	7 wells added to inventory and 3 GWUDI determinations currently in process of determination.
Environmental	50 Source Water Protection Plans prepared or updated.	28 Source Water Protection Plans developed.

<sup>1</sup>The term "outcome" means the result, effect or consequence that will occur from carrying out an environmental program or activity that is related to an environmental or programmatic goal or objective. Outcomes may be environmental, behavioral, health-related or programmatic in nature, must be quantitative, and may not necessarily be achievable within an assistance agreement funding period." EPA Order Classification No.: 5700.7

**SUMMARY**

The State’s Wellhead Protection Program plan, as approved by EPA, has a stated two-fold purpose: 1) for the fulfillment of the wellhead protection requirements of the Safe Drinking Water Act; and 2) to provide another means to enhance the agency’s continuing efforts to protect public drinking water supply sources under the State’s Public Water Supply Supervision Program. Both goals were accomplished.

Overall, the principal aims of the WHPP, Phase I (delineation) and Phase II (PSOC inventory) report production, continued to be the main focus of the WHPP, although considerable time was expended on hydrologic analyses and technical assistance for location of well sites and sanitary construction of proposed new wells. Technical assistance to the water systems as needed was also a focus for the program, as was hydrologic analysis and technical assistance frequently requested by consultants, well drillers, and members of the public. Significant time was also devoted to offsite cooperation with other organizations and agencies interested in wellhead/source water protection, especially the Arkansas Rural Water Association on groundwater protection issues.

Most of the effort in producing WHP delineation reports was spent on collection and verification of the well construction data and hydrologic data included in the reports, followed by calculation of WHPA radii and compilation of the GIS layers for the accompanying maps. There were 13 delineations made or revised at three public water systems. A roughly equal amount of time was devoted to assistance with inventories of Potential Sources of Contamination (PSOC) within the delineated WHPA and the follow-up work such as creating GIS layers representing the PSOCs identified within each WHPA.

**2. Capacity Development Strategy Assistance**

Capacity Development program activities implemented benefited the State’s Community Water Supply systems by moving them closer to having adequate capacity or maintaining adequate capacity.

Sub-Element/Category: Capacity Development Program

*Goal: Provide technical assistance to water systems to improve system capacity for compliance with drinking water regulations*

<b>OBJECTIVE 1: To provide assistance to enable small water systems serving a population &lt;10,000 to achieve and maintain compliance with the Safe Drinking Water Act (SDWA) and State Drinking Water Regulations, work on specific water systems with the Capacity Development Program and produce high-quality drinking water for the long term.</b>	<b>Administering Agency:</b> ADH	<b>Task Performing Agency: ADH</b>  <b>SDWA Citation: 1452(g)(2)</b>
<b>Activities (Outputs)</b>	<b>Collaborators</b>	<b>Schedule for Completing Activities - Rate of Completion</b>
1. Assistance and training to PWSs with completed capacity assessments that were identified as requiring capacity assistance.	ADH, PWS, Contractors	As Needed
2. Assistance and training to PWSs identified by the ETT.	ADH, PWS, Contractors	As Needed
3. Assistance and training to PWSs to bring about regionalization.	ADH, PWS, Contractors	On-going
4. Assistance and training to PWSs with obtaining a certified operator.	ADH, PWS, Contractors	On-going
5. Board member training to PWS water boards and city councils.	ADH, Contractors	On-going
6. Complete Comprehensive Performance Evaluations on surface water systems that are unable to meet the requirements of the surface water treatment rules, the requirements of the disinfection by-product rules, or request assistance with optimization.	ADH, Contractors	On-going
7. Provide PWSs with infrastructure location and mapping services.	Contractors	On-going
8. Provide monthly reports to Engineering containing the names of PWSs assisted and the type and quantity of assistance provided.	Contractors	Monthly
<b>Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA’s Annual PWSS Program Evaluation.</b>		

OBJECTIVE 2: Implement the Capacity Development Program to assist new and existing PWSs toward achieving and maintaining technical, managerial and financial (TMF) capacity.	Administering Agency: ADH	Task Performing Agency: ADH
		SDWA Citation: 1452(k)(1)(B)
Activities (Outputs)	Collaborators	Schedule for Completing Activities - Rate of Completion
1. Perform assessment of each new potential water system to determine if it meets technical, managerial, and financial (TMF) capacity.	ADH, PWS	On-going
2. Perform a TMF assessment of each existing community water system and non-transient non-community water system and rank them based on their TMF assessment.	ADH	On-going
3. Provided assistance to PWSs to improve their TMF capacity. Priority will be given to the systems with the most need.	ADH, Contractors	On-going
4. Track PWSS Progress towards meeting TMF capacity.	ADH	On-going
Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA's Annual PWSS Program Evaluation.		

OBJECTIVE 3: Implement the Capacity Development Program to assist new and existing PWSs to meet the requirements of the SDWA and State Drinking Water Regulations at present and in the future.	Administering Agency: ADH	Task Performing Agency: ADH
		SDWA Citation: 1452(k)(1)(B)
Activities (Outputs)	Collaborators	Schedule for Completing Activities - Rate of Completion
1. Draft CCRs for PWSs as requested. Ensure that all public water systems are provided with the technical assistance and training necessary to comply with the CCR regulations.	ADH, PWS	On-going
2. Provide necessary training for water operators seeking to obtain certification under the State's operator certification program and provide specialized training to further the skills of these and other operators.	ADH	On-going
3. Assist local PWSs in establishing cross connection control to help maintain the water quality in the PWS distribution mains.	ADH	On-going
4. Implement AWOP including the conducting of CPEs and PBT training sessions primarily for surface water systems that are unable to meet the requirements of the surface water treatment rules, the disinfection by-product rules, or for systems requesting assistance with optimization.	ADH	On-going
5. Provide assistance to systems with the non-routine investigative monitoring requirements of the LT2ESWTR using 1 <sup>st</sup> Round Credit.	ADH, Contractors	SFY 15-20
6. Provide systems a reliable overnight delivery service of bacteriological sample to the ADH laboratory.	ADH	On-going
Deliverable: Annual Reports to EPA (to include report on progress toward goals identified in the <i>Intended Use Plan</i> and an assessment of work plan activity achievements); EPA's Annual PWSS Program Evaluation.		

(Remainder of Page Intentionally left blank)

Outputs<sup>1</sup> – to be documented in Annual Reports:

Output Type	Quantitative/Qualitative Description of Proposed Output outlined in Work Plan.	Deliverables outlined in Work Plan.	SFY 17 Outputs
Environmental	Provide on-site technical assistance and training to PWS operators.	Provide an estimated 2600 man-hours assistance.	<ul style="list-style-type: none"> <li>– Technical assistance and/or training concerning DBP issues were provided to 37 systems.</li> <li>– ADH staff presented sessions at 2 3-day conferences and District Meetings, as requested.</li> <li>– ADH staff conducted 14- one day compliance training sessions. One additional course was offered, but cancelled due to lack of enrollment.</li> <li>– 6 training sessions were held on cross-connection control policies and procedures.</li> <li>– 3 BPAA meetings were attended.</li> <li>– Cross-connection control surveys were conducted at 35 water systems.</li> </ul>
Environmental	Conduct CCR training.	Conduct five (5) CCR training sessions for an anticipated 70 PWSs	Three (3) training classes were held at District Meetings.
Environmental	Draft CCRs for PWSs as requested and provide direct assistance to PWSs developing their own.	Draft CCRs for an anticipated 693 PWSs; Assistance to PWSs drafting their own CCR on as needed basis.	693 water systems distributed CCRs to customers.
Programmatic	Review, evaluated, and comment, as appropriate, on all CCRs submitted to Engineering	Anticipate 730 systems will be received and reviewed.	CCR staff prepared and delivered 693 CCRs to water systems, and evaluated and reviewed all distribution methods.
Environmental	Maintain the current overall compliance with the CCR		Compliance rate was 96%.
Programmatic	Coordinate AWOP efforts	Provide one FTE to coordinate / conduct 2 CPEs and Data Audits at four (4) systems.	<ul style="list-style-type: none"> <li>– One staff (position was vacant part of the year) contributed 100% of his time toward coordinating and conducting AWOP activities.</li> <li>– 1 CPE was conducted.</li> <li>– Data Audits was conducted at 2 surface water treatment plants.</li> <li>– Calibration checks made at 23 surface water treatment plants on 168 turbidimeters, 46 pH meters and 65 chlorine analyzers.</li> <li>– AWOP staff participated in 3 AWOP meetings, 18. 2 AWW&amp;WEA meetings, and an ARWA meeting.</li> </ul>
Programmatic	Provide operator compliance training courses	Provide 24 operator certification courses operators or operators-in-training.	14 mandatory Compliance courses were taught at various locations throughout the state
Programmatic	Publish Quarterly Newsletter	Publish four (4) newsletters and distribute approximately 3600 per quarter	Four (4) newsletters were published with over 3700 mailings per issue. Copies were sent to water system operators and managers, local utility officials (i.e.: mayor, association president, owner, etc.), environmental groups and other organizations / persons requesting to be on the distribution list.
Environmental	Coordinate / track mapping contract	Provide infrastructure location and mapping services for 45 water systems.	Assessment reports completed –32; man hours GPS work - 1,006 man-hours; mapping – 863 man-hours; training – 126 man-hours.
Programmatic		Review and approve any contract invoices and/or deliverables within 30 days.	32 systems were mapped. Invoices were reviewed and payment was authorized within 7 days of receipt of final invoice.

<sup>1</sup>The term "Output" means an environmental activity, effort and/or associated work products related to an environmental goal or objective, what will be produced or provided over a period of time or by a specified date. Outputs may be quantitative or qualitative but must be measurable during an assistance agreement funding period.\* EPA Order Classification No.: 5700.

Outcomes/Environmental results – to be documented in Annual Reports:

Outcome Type	Quantitative Description of Outcome	SFY17
Environmental	To educate/reassure local PWS customers on the quality/safety of their drinking water.	668 water systems distributed CCRs to customers. This was a compliance rate of 96%. All CCRs are available on the ADH website.
Environmental	Improved distribution water quality provided to the public through cross-connection control program.	6 training sessions were held on cross connection control policies and procedures.
Environmental	Improve water quality through treatment plant optimization efforts.	Our technical assistance providers participated in 1 CPE in SFY17
Environmental	99% of Community and Non-Transient Non-Community water systems will have licensed operators. 50 courses were offered to operators and operators in training. ADH staff presented sessions at 2 3-day conferences. In addition, classes were held on fluoride training, CCR's, and cross-connection control. TA providers went on-site to help with peer-to-peer operator training when necessary.	Conducted 26 exam sessions, plus on demand computer based exams capability that is seeing greater use over time. The program processed 639 exams, issued 97 Operator in Training certificates, issued 269 new licenses and tracked the renewal of 2,261 operators holding 3,291 active water operator licenses or Operator in Training Certificates.

<sup>1</sup>The term "outcome" means the result, effect or consequence that will occur from carrying out an environmental program or activity that is related to an environmental or programmatic goal or objective. Outcomes may be environmental, behavioral, health-related or programmatic in nature, must be quantitative, and may not necessarily be achievable within an assistance agreement funding period." EPA Order Classification No.: 5700.7

This set-aside also contributed toward the Agency's state courier system to assist water systems in submitting samples to the laboratory. This service provides assistance to water systems by providing a reliable overnight delivery service at no cost to them. The systems also benefit by having significant reductions in the number of samples rejected due to being too old or being lost in transit. The systems do not have to coordinate individual arrangements with other means of sample delivery.

This set-aside also funded or will fund the first two years and part of the third year of the second round cryptosporidium monitoring and analysis using an unspent credit from the first round on LT2ESWTR monitoring. Twenty (20) sources at sixteen (16) water systems were monitored for cryptosporidium, turbidity and E. coli monthly for 12 months (240 sample events). Additionally sixty-five (65) systems completed monthly LT2 source water monitoring for E. coli. Twenty-two of these systems triggered cryptosporidium monitoring.

**ADH - ATTACHMENT A**

OVERALL SUMMARY OF EXPENDITURES

AND

SALARY SUMMARY

## Expenditure Summary

GRANT ID			Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total Expenses	
ASRA0015	FS98	PWSS	Salaries	\$ 24,074.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,074.85	
		SPM	Fringe	\$ 5,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000.00
	SRF15	ASRC	Travel-09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			Supplies	\$ 1,074.90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52.59	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	FHD ****	ASRC	Travel-02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	ASRA0015	ASRC	Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			Indirect	\$ 6,662.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Subtotal</b>	\$ 36,812.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52.59	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,864.78
	10/1/2015 9/30/2019	TA	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fringe			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
ASRD		Travel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
ASRD		Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
ASRD		Indirect	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		<b>Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WHP		Salaries	\$ 27,016.16	\$ 38,240.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65,256.66
		Fringe	\$ 9,265.10	\$ 11,759.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,024.30
ASRB	Travel-09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	Supplies	\$ 7,657.15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,657.15	
ASRB	Travel-02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
ASRB	Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	Indirect	\$ 6,058.97	\$ 8,349.76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,408.73	
		<b>Subtotal</b>	\$ 49,997.38	\$ 58,349.46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 108,346.84	
CD	ASRF	Salaries	\$ 61,159.44	\$ 51,785.36	\$ 88,378.23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 201,323.03	
		Fringe	\$ 19,552.03	\$ 18,063.78	\$ 26,264.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63,880.37	
	ASRF	Travel-09	\$ -	\$ -	\$ 4,556.37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,556.37	
		Supplies	\$ 6,936.52	\$ 75,409.86	\$ 64,621.61	\$ -	\$ -	\$ -	\$ -	\$ 0.01	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 146,968.00
	ASRF	Travel-02	\$ 926.28	\$ 1,893.09	\$ 976.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,795.89
		Equipment	\$ -	\$ 8,513.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,513.89
	ASRF	Contractual	\$ -	\$ 30,048.81	\$ 25,900.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,949.56
		Indirect	\$ 13,478.82	\$ 11,664.81	\$ 19,145.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,288.97
			<b>Subtotal</b>	\$ 102,053.09	\$ 197,379.60	\$ 229,843.39	\$ -	\$ -	\$ -	\$ 0.01	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 529,276.08
			<b>TOTAL</b>	\$ 188,862.66	\$ 255,729.06	\$ 229,843.39	\$ -	\$ -	\$ -	\$ 52.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 674,487.70

GRANT ID			Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total Expenses
SRF16 FHD**** 610****	PWSS	Salaries	\$ 10,000.01	\$ 24,713.48	\$ 38,289.83	\$ 28,307.65	\$ 29,007.71	\$ 28,307.70	\$ 34,196.63	\$ 21,491.13	\$ 30,933.23	\$ 22,936.66	\$ 23,336.63	\$ 24,868.26	\$ 316,388.92
	SPM	Fringe	\$ 820.00	\$ 9,455.86	\$ 12,287.30	\$ 10,439.73	\$ 10,207.55	\$ 10,050.75	\$ 10,781.58	\$ 8,418.00	\$ 10,809.04	\$ 9,422.51	\$ 9,148.34	\$ 9,790.14	\$ 111,630.80
ASRA0016	ASRC	Travel-09	\$ -	\$ -	\$ 1,236.23	\$ -	\$ 710.09	\$ -	\$ 1,110.00	\$ -	\$ 2,501.24	\$ (800.09)	\$ -	\$ -	\$ 4,757.47
		Supplies	\$ -	\$ 8,838.52	\$ 9,787.19	\$ 1,291.41	\$ 16,497.91	\$ 4,355.55	\$ 29,844.59	\$ 10,240.56	\$ 15,602.34	\$ 10,002.10	\$ 42,683.25	\$ 21,244.68	\$ 170,388.10
		Travel-02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,375.23	\$ -	\$ 171.33	\$ -	\$ -	\$ 1,546.56
		Equipment	\$ -	\$ -	\$ 77,589.82	\$ -	\$ -	\$ -	\$ -	\$ 8,513.89	\$ 84,363.23	\$ (1,872.43)	\$ -	\$ -	\$ 168,594.51
		Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Indirect	\$ -	\$ 6,458.01	\$ 9,559.08	\$ 7,323.25	\$ 7,411.68	\$ 7,249.75	\$ 8,500.88	\$ 5,652.83	\$ 7,889.29	\$ 6,115.88	\$ 6,139.66	\$ 6,550.44	\$ 78,850.75
		Subtotal	\$ 10,820.01	\$ 49,465.87	\$ 148,749.45	\$ 47,362.04	\$ 63,834.94	\$ 49,963.75	\$ 92,947.57	\$ 131,540.98	\$ 65,862.71	\$ 47,848.39	\$ 81,307.88	\$ 62,453.52	\$ 852,157.11
	TA	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Fringe	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Travel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	ASRD	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Contractual	\$ 9,398.53	\$ -	\$ 1,281.03	\$ -	\$ 30,630.10	\$ 9,550.80	\$ 14,889.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65,750.26
		Indirect	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 9,398.53	\$ -	\$ 1,281.03	\$ -	\$ 30,630.10	\$ 9,550.80	\$ 14,889.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65,750.26	
WHP	Salaries	\$ -	\$ -	\$ 46,686.26	\$ 30,730.38	\$ 30,970.39	\$ 30,730.32	\$ 30,730.43	\$ 30,730.36	\$ 46,095.59	\$ 30,730.35	\$ 30,730.35	\$ 32,683.82	\$ 340,818.25	
	Fringe	\$ -	\$ 173.98	\$ 14,033.07	\$ 10,928.68	\$ 10,512.32	\$ 10,458.55	\$ 10,846.67	\$ 10,458.49	\$ 14,043.84	\$ 10,700.24	\$ 10,248.48	\$ 11,081.47	\$ 113,485.79	
	Travel-09	\$ -	\$ -	\$ 495.00	\$ 1,490.78	\$ 1,843.71	\$ 2,801.98	\$ -	\$ 400.00	\$ -	\$ -	\$ -	\$ 12.00	\$ 7,043.47	
	Supplies	\$ -	\$ 1,330.94	\$ 212.78	\$ 39.11	\$ 3,117.89	\$ 1,769.20	\$ 529.75	\$ 237.21	\$ 636.16	\$ 43.60	\$ -	\$ -	\$ 7,916.64	
ASRB	Travel-02	\$ -	\$ -	\$ 353.81	\$ -	\$ 314.89	\$ 262.77	\$ -	\$ -	\$ -	\$ -	\$ 1,123.14	\$ 43.60	\$ 2,098.21	
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Indirect	\$ -	\$ 32.88	\$ 11,475.95	\$ 7,873.56	\$ 7,840.23	\$ 7,784.70	\$ 7,858.07	\$ 7,784.69	\$ 11,366.35	\$ 7,830.38	\$ 7,745.00	\$ 8,271.64	\$ 85,863.46	
	Subtotal	\$ -	\$ 1,537.80	\$ 73,256.87	\$ 51,062.51	\$ 54,599.43	\$ 53,807.52	\$ 49,964.92	\$ 49,610.75	\$ 72,141.94	\$ 49,304.57	\$ 49,846.97	\$ 52,092.53	\$ 557,225.82	
CD	Salaries	\$ -	\$ -	\$ -	\$ 59,946.77	\$ 59,346.73	\$ 59,346.86	\$ 60,246.80	\$ 58,229.59	\$ 81,781.21	\$ 53,249.20	\$ 54,249.14	\$ 56,743.04	\$ 543,139.34	
	Fringe	\$ -	\$ -	\$ -	\$ 20,740.19	\$ 19,760.24	\$ 19,760.16	\$ 20,713.25	\$ 19,511.09	\$ 24,923.52	\$ 19,236.62	\$ 18,619.52	\$ 19,539.78	\$ 182,804.37	
	Travel-09	\$ -	\$ -	\$ -	\$ 267.46	\$ 1,979.54	\$ 1,056.37	\$ -	\$ 735.62	\$ 121.57	\$ 2,620.09	\$ 645.99	\$ -	\$ 7,426.64	
	Supplies	\$ -	\$ -	\$ 21,520.14	\$ 10,774.10	\$ 8,150.92	\$ 6,915.98	\$ 12,331.18	\$ 2,495.01	\$ 8,581.65	\$ 5,993.57	\$ 7,113.22	\$ 1,428.21	\$ 85,303.99	
ASRF	Travel-02	\$ -	\$ -	\$ -	\$ 1,120.35	\$ 351.15	\$ 366.82	\$ 45.28	\$ 504.41	\$ 2,521.10	\$ 773.74	\$ 921.92	\$ 1,949.25	\$ 8,554.02	
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (8,513.89)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (8,513.89)	
	Contractual	\$ -	\$ -	\$ -	\$ 27,275.85	\$ 8,670.91	\$ -	\$ -	\$ -	\$ -	\$ (35,946.76)	\$ -	\$ 65,701.29	\$ 65,701.29	
	Indirect	\$ -	\$ -	\$ -	\$ 15,249.84	\$ 14,951.22	\$ 14,951.23	\$ 15,301.45	\$ 14,692.99	\$ 20,167.19	\$ 13,699.82	\$ 13,772.18	\$ 14,417.45	\$ 137,203.36	
	Subtotal	\$ -	\$ -	\$ 21,520.14	\$ 135,374.56	\$ 113,210.71	\$ 102,397.42	\$ 100,124.07	\$ 96,168.71	\$ 138,096.24	\$ 59,626.28	\$ 95,321.97	\$ 159,779.02	\$ 1,021,619.12	
	TOTAL	\$ 20,218.54	\$ 51,003.67	\$ 244,807.49	\$ 233,799.11	\$ 262,275.18	\$ 215,719.49	\$ 257,926.35	\$ 277,320.44	\$ 276,100.89	\$ 156,779.24	\$ 226,476.82	\$ 274,325.07	\$ 2,496,752.29	

GRANT ID			Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total Expenses
FS98 SRF17 FHD ****  ASRA0017	PWSS	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SPM	Fringe	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Travel-09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	ASRC	Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Travel-02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Indirect	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		<b>Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	10/1/2017 9/30/2021	TA	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Fringe	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Travel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ASRD	Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,588.95	\$ 51,197.54	\$ 26,265.75	\$ 51,725.11	\$ 41,329.03	\$ 50,642.49	\$ 238,748.87	
	Indirect	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	<b>Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,588.95	\$ 51,197.54	\$ 26,265.75	\$ 51,725.11	\$ 41,329.03	\$ 50,642.49	\$ 238,748.87	
	WHP	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Fringe	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Travel-09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ASRB	Travel-02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Indirect	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	CD	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Fringe	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Travel-09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ASRF	Travel-02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Contractual	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Indirect	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Subtotal</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,588.95	\$ 51,197.54	\$ 26,265.75	\$ 51,725.11	\$ 41,329.03	\$ 50,642.49	\$ 238,748.87	

## Position Effort Funding Summary (need updated chart)

Position #	Name	Position Title	ASRC SPM (FTE)	ASRB WHP (FTE)	ASRF Cap Dev (FTE)	ASRC SPM (FTE)	ASRF Cap Dev (FTE)	ASRB WHP (FTE)	AWPH ADEQ - WHP (FTE)	AHLS Security (FTE)	AWAT PWSS (FTE)	ASGR General Revenue (FTE)	APWF PWS Service Fee (FTE)	APLE Plan Review Fee Fund (FTE)	AWHF Licensing Fees (FTE)
<b>Technical Staff</b>															
22105676	Acuff, Callie	Engineer	0.13		0.87		1.00								
22105781	Alexander, Gregory	Senior Environ Health Specialist		0.84	0.16		0.04	0.96							
22106108	Arthur, Robert	Engineer Supervisor			0.10		0.10								
22105843	Bird, Jason	Environmental Health Special	0.39	0.20	0.13	0.72									
22105532	Borbely-Kort, Evelyn	Professional Geologist		1.00				0.40	0.60						
22106157	Bradshaw, Lester	Engineer Technician	0.95		0.05								1.00		
22076851	Braich, Davinder	Research Assistant - (Intern)	0.07										0.07		
22107010	Brown, Taylor	Engineer, P.E.	0.14	0.76	0.09			1.00							
22076783	Burghart, Steven	Engineer, P.E.	0.92	0.02	0.06		0.33							0.67	
22106127	Corder, Craig	Engineer Supervisor	0.23		0.77		0.50						0.50		
22104790	Corder, Susan	Adh Environmental Supv	0.85		0.15								1.00		
22106202	Couch, Tyler	Environmental Health Special	0.01	0.98	0.01			1.00							
22109403	Cumnock, Allie	Environmental Health Special	0.04								0.04				
22104518	Dawson, Douglas	Environmental Health Special	0.34		0.66		1.00								
22076920	Doles, Perry	Engineer Technician	0.12	0.02									0.14		
22076817	Dyer, Toby	Engineer Technician	0.35		0.01								0.36		
22104664	Fitzhugh, Steven	Engineer Technician	0.85		0.15								1.00		
22106817	Frogoso, Kristina	Environmental Health Special	0.30		0.70		1.00								
22105417	Gephardt, Trent	Senior Environ Health Special	0.89	0.04	0.07	0.10					0.90				
22106309	Gibbons, Andrew	Environmental Health Special	0.24			0.24									
22109403	Gilkey, Jason	Environmental Health Special	0.43		0.05						0.48				
22105425	Gilley, Benjamin	Adh Environmental Supv	0.00	1.00				1.00							
22105879	Godfrey, Lyle	ADH Engineer Chief	0.52	0.27	0.21								1.00		
22076817	Gray, Gavin	Engineer Technician	0.40										0.40		
22105701	Greenway, Glenn	Engineer Supervisor	0.71	0.00	0.29								1.00		
22104936	Gregg, Jack	Environmental Health Special	0.65	0.25	0.09	0.50	0.50								
22105953	Harris, Robert	Engineer, P.E.	0.91		0.09		1.00								
22104997	Hatfield, Marshall	Engineer, P.E.	0.92	0.00	0.08						1.00				
22109218	Hilborn, Aaron	Engineer Supervisor	0.77	0.22	0.01		0.06	0.44			0.50				
22106108	Hobbs, Ashley	Engineer Supervisor	0.79	0.01	0.05		0.85								
22106395	Johnson, Thomas	Engineer, P.E.	0.89		0.11		1.00								
22105207	Jones, Lance	ADH Engineer Chief	0.81	0.08	0.11								1.00		
22106665	Jones, Mark	Environmental Health Special	0.64	0.08	0.28						1.00				
22105906	Jones, Trent	Engineer	0.04			0.04									
22109519	Lee, Teresa	Engineer Supervisor	0.00	0.05	0.95								1.00		
22105906	Marshall, George	Engineer	0.57			0.57									
22105008	Mcmanus, Cary	Engineer Technician	0.94	0.01	0.05								1.00		
22105750	Meacham, Wayne	Environmental Health Special	0.75	0.06	0.19								1.00		
22106838	Michaels, Robin	Environmental Health Special	0.99	0.01									1.00		
22105470	Mize, Charles	Engineer Technician	0.95		0.05								1.00		
22106309	Morgan, Martha	Environmental Health Special	0.12	0.25	0.14	0.50									
22110689	Nelsen, Laura	Environmental Health Special	0.03		0.97	1.00									
22109829	Norwood, Richard	Environmental Health Special	0.01	0.99				1.00							
22107118	Nutt, Andrew	Adh Environmental Supv			1.00		1.00								
22163676	Osmon, Adam	Engineer	0.46	0.05	0.15			0.66							
22163678	Parker, Adam	Engineer	0.82	0.02	0.16	0.50								0.50	
22105615	Prioleau, Alicia	Environmental Health Special			1.00		1.00								
22106342	Reaves, Robert	Engineer	0.55	0.32	0.13		0.03	0.97							
22106024	Roberts, Christopher	Engineer, P.E.	0.42	0.04	0.54		1.00								
22110513	Robertson, Clay	Engineer Technician	0.94		0.06								1.00		
22106823	Routh, Darcia	Geology Supervisor	0.01	0.99				1.00							
22105580	Saunders, Gerald	Environmental Health Special	0.43	0.51	0.06						1.00				
22163677	Stacy, William	Engineer	0.54	0.09	0.37								1.00		
22105489	Starling, Stanley	Environmental Health Special	0.84		0.16						1.00				
22105224	Stone, Jeffery	ADH Dir Engineering	0.99		0.01								1.00		
22105003	Talley, Christopher	Environmental Health Special	0.03	0.96	0.01	1.00									
22105585	Taylor, Dennis	Engineer Supervisor	1.00								1.00				
22111755	Thompson, Raymond	Engineer Supervisor	0.96	0.00	0.04		1.00								
22110035	Welytok, Victoria	Engineer	0.86	0.14		1.00									
22111755	Wilson, Jack	Environmental Health Special	0.96	0.04							1.00				
22076820	Yang, Johnny	Engineer Technician	0.08		0.04			0.12							
22106189	Youngblood, Stephen	Engineer, P.E.	0.73	0.21	0.06		1.00								
		<b>TOTALS</b>	<b>30.27</b>	<b>10.51</b>	<b>11.51</b>	<b>6.17</b>	<b>13.07</b>	<b>7.89</b>	<b>0.60</b>		<b>7.92</b>		<b>15.47</b>	<b>1.17</b>	
		<b>%</b>	<b>60.08%</b>	<b>22.73%</b>	<b>17.13%</b>	<b>16.00%</b>	<b>24.00%</b>	<b>11.51%</b>			<b>15.07%</b>		<b>28.41%</b>	<b>1.87%</b>	

			Effort			Funding									
			SRF Set-Asides			Federal						State			
Position Title			ASRC	ASRF	ASRB	ASRC	ASRF	ASRB	AWPH	AHLS	AWAT	ASGR	APWF	APLE	AWHF
Position #	Name		SPM (FTE)	Cap Dev (FTE)	WHP (FTE)	SPM (FTE)	Cap Dev (FTE)	WHP (FTE)	ADEQ - WHP (FTE)	Security (FTE)	PWSS (FTE)	General Revenue (FTE)	PWS Service Fee (FTE)	Plan Review Fee Fund (FTE)	Licensing Fees (FTE)
<b>IT Staff</b>															
22076818	Beard, Matthew	Engineer Technician	1.00								1.00				
22109788	Bradley, David	Software Support Analyst	0.93	0.03	0.04	0.25							0.75		
22107058	Hill, Steven	Geologist			1.00		0.95	0.05							
22104509	Mance, Margaret	Engineer Technician	1.00			1.00									
22105231	Thompson, Andrew	Systems Analyst	1.00								1.00				
22105749	Treadway, Gregory	Computer Support Coord	0.98	0.02									1.00		
22111469	Veluvolu, Ramesh	Software Support Analyst	0.43		0.02								1.00		
<b>TOTALS</b>			<b>5.34</b>	<b>0.05</b>	<b>1.06</b>	<b>1.25</b>		<b>0.05</b>			<b>2.00</b>		<b>2.75</b>		
<b>Administrative Staff</b>															
22105926	Charbonneau, Helen	Administrative Spec III	0.60	0.23	0.17						0.40				
22105960	Gaston, Cathy	Administrative Analyst	0.60	0.23	0.17			0.60					1.00		
22105953	Hampton, Ida	Administrative Spec III			1.00										1.00
22105622	Johnson, Anastasia	Administrative Spec II	0.60	0.23	0.17						1.00				
22106262	Lambert, Marcia	Administrative Spec II	0.60	0.23	0.17	0.08		0.17					0.75		
22111151	Petroff, Rosalyn	Administrative Spec III	0.60	0.23	0.17							1.00			
22105983	Rochelle, Linda	Administrative Spec II	0.25	0.10	0.07								0.42		
22104617	Ross, Shunte'	Administrative Spec II	0.60	0.23	0.17								1.00		
22104842	Shirley, Kelly	Administrative Analyst	0.20	0.08	0.05						0.33				
22111547	Summons, Sharon	Human Res Program Rep	0.60	0.23	0.17								1.00		
22104661	Trimble, Mary	Budget Analyst	0.60	0.23	0.17								1.00		
<b>TOTALS</b>			<b>5.26</b>	<b>3.00</b>	<b>1.49</b>	<b>0.08</b>	<b>0.60</b>	<b>0.17</b>			<b>1.73</b>	<b>1.00</b>	<b>5.17</b>		<b>1.00</b>
<b>Engineering Grand Totals</b>			<b>40.87</b>	<b>13.56</b>	<b>14.06</b>	<b>7.50</b>	<b>14.61</b>	<b>8.12</b>	<b>0.60</b>	<b>0.00</b>	<b>11.65</b>	<b>1.00</b>	<b>23.39</b>	<b>1.17</b>	<b>1.00</b>

ADH Laboratory Staff Support by Drinking Water Program			Effort			Funding											
Position #	Name	Position Title	SRF Set-Asides			Federal						State					
			ASRC SPM (FTE)	ASRF Cap Dev (FTE)	ASRB WHP (FTE)	DWSRF Set-Asides			Other Federal Grants			ASGR General Revenue (FTE)	APWF PWS Service Fee (FTE)	APLE Plan Review Fee Fund (FTE)	AWHF Licensing Fees (FTE)		
						ASRC SPM (FTE)	ASRF Cap Dev (%)	ASRB WHP (FTE)	AWPH ADEQ - WHP (FTE)	AHLS Security (FTE)	AWAT PWSS (FTE)						
22106646	Austin, Indya	Laboratory Technician	-	-	-										1.00		
22106087	Beeson, Travis	Senior Chemist	-	-	-							1.00					
22104646	Biddle, Patricia	Senior Microbiologist	-	-	-								1.00				
22109071	Blaylock, Karen	Budget Manager	-	-	-							0.50					
22105874	Bonner, Errol	Chemist	-	-	-							1.00					
22107017	Clark, Joey	Chemist	-	-	-							1.00					
22105303	Colbert, Dionne	Senior Chemist	-	-	-								1.00				
22110210	Cunningham, Gregory	Warehouse Specialist	-	-	-							1.00					
22076816	Deck, Teresa	Senior Chemist	-	-	-							1.00					
22105147	Donnerson, Carolyn	Warehouse Specialist	-	-	-								1.00				
22106040	Duke, David	Senior Chemist	-	-	-								1.00				
22105976	Emerson, Elizabeth	ADH Laboratory Manager	-	-	-							1.00					
22106646	Enlow, Karron	Laboratory Technician	-	-	-								1.00				
22106311	Fedora, Evgenyia	ADH Laboratory Manager	-	-	-							1.00					
22105402	Ferguson, Dorothy	ADH Laboratory Manager	-	-	-								1.00				
22110868	Freres, Mary	Chemist	-	-	-								1.00				
22106716	Gulley, Frederick	Laboratory Technician	-	-	-								1.00				
22106766	Gurley, Catherine	Microbiologist	-	-	-								1.00				
22106474	Henderson, Terri	Senior Chemist	-	-	-								1.00				
22106336	Hudgin, Ryan	Laboratory Technician	-	-	-								1.00				
22105299	Jefferson, Benjamin	Senior Chemist	-	-	-								1.00				
22106712	Jones, Marcus	Laboratory Technician	-	-	-							1.00					
22105521	Jordan, Alindria	ADH Laboratory Manager	-	-	-								1.00				
22106175	Jordan, Erika	Administrative Specialist II	-	-	-							1.00					
22107017	Linz, Rhonda	Chemist	-	-	-							1.00					
22105048	Madden, Fanchon	Chemist	-	-	-								1.00				
22106311	Manor, Delois	ADH Laboratory Manager	-	-	-							1.00					
22106449	Mcgee, Charles	Information Systems Coor	-	-	-								1.00				
22111353	Morris, Anderson	Senior Chemist	-	-	-								1.00				
22105123	Owen, James	Senior Microbiologist	-	-	-								1.00				
22105462	Parrish, Mark	Senior Chemist	-	-	-								1.00				
22107121	Poposky, Louis	Senior Chemist	-	-	-							1.00					
22106266	Randolph, Debra	Senior Chemist	-	-	-								1.00				
22107000	Rankin, Steven	Senior Chemist	-	-	-								1.00				
22109380	Rowlett, Gary	ADH Laboratory Manager	-	-	-							1.00					
22105255	Sanders, Saluta	Chemist	-	-	-								1.00				
22105422	Sheridan, Gregory	Senior Chemist	-	-	-								1.00				
22106479	Smith, Sandra	Laboratory Technician	-	-	-								1.00				
22104834	Stetzer, Marye	Administrative Specialist I	-	-	-							1.00					
22104860	Threet, Jimmy	Chemist	-	-	-								1.00				
22105336	Troup, Timothy	ADH Laboratory Manager	-	-	-								1.00				
22105905	Wilson, Elizabeth	Microbiologist	-	-	-							1.00					
22104906	Wilson, Mark	Senior Chemist	-	-	-								1.00				
22106766	Wrightner, Rakara	Microbiologist	-	-	-								1.00				
22076782	Wylie, Susan	ADH Assoc Cent Dir Mg-Ops	-	-	-							0.50					
TOTALS												16.00	28.00	44.00			

\*\* FTEs for Lab Staff in general are @ 1.0 per position, only new staff would be less than 1.0 FTE. The information for making exact FTE determination for Lab staff is not available to Engineering.

The reason for listing is to show additional in-kind matching positions over and above the documented values in the third paragraph on page 4 of the Annual Report.

# Set-Aside Summary

SRF Grant Year	Set-Aside	% of Grant	Total Available	Total Reserved	Total Available to Budget	Total Expended To Date	Remaining Balance	Grant Start Date	Projected Expense Begin Date	Projected Expense End Date	Grant End Date
98600110 2007*	SPM	10%	\$ 1,033,300	\$ -	\$ 1,033,300	\$ 1,033,300	\$ -	9/10/2008	Jul-10	Sep-11	9/30/2012
	TA	2%	\$ 206,660	\$ 6,804	\$ 200,576	\$ 200,576	\$ -		Oct-10	Sep-12	
	WHP	5%	\$ 619,980	\$ -	\$ 516,650	\$ 516,650	\$ -		Jun-11	Jun-12	
	Cap Dev	10%	\$ 929,970	\$ -	\$ 1,033,300	\$ 1,033,300	\$ -		Jul-10	Jul-11	
	Total	27%	\$ 2,789,910	\$ -	\$ 2,783,826	\$ 2,777,742	\$ -		Jul-10	Sep-12	
ARRA 09	SPM	10%	\$ 2,448,500	\$ 2,448,500	\$ -	\$ -	\$ -	2/27/2009	N/A	N/A	9/30/2011
	TA	2%	\$ 489,700	\$ 489,700	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	0%	\$ -	\$ -	\$ -	\$ -	\$ -		N/A	N/A	
	Cap Dev	0%	\$ -	\$ -	\$ -	\$ -	\$ -		N/A	N/A	
	Total	12%	\$ 2,938,200	\$ 2,938,200	\$ -	\$ -	\$ -		N/A	N/A	
98600111 2008**	SPM	10%	\$ 1,022,900	\$ -	\$ 1,022,900	\$ 1,022,900	\$ -	10/1/2009	Sep-11	Sep-12	9/30/2013
	TA	2%	\$ 204,580	\$ 204,580	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 613,740	\$ -	\$ 511,450	\$ 511,450	\$ -		Jun-12	Apr-13	
	Cap Dev	10%	\$ 920,610	\$ -	\$ 1,022,900	\$ 1,022,900	\$ -		Jun-11	Apr-12	
	Total	27%	\$ 2,761,830	\$ 204,580	\$ 2,557,250	\$ 2,557,250	\$ -		Jun-11	Apr-13	
98600112 2009	SPM	10%	\$ 1,022,900	\$ 400,000	\$ 622,900	\$ 622,900	\$ -	10/1/2010	Sep-12	Apr-13	9/30/2014
	TA	2%	\$ 204,580	\$ 204,580	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 511,450	\$ -	\$ 511,450	\$ 511,450	\$ -		Apr-13	Oct-13	
	Cap Dev	10%	\$ 1,022,900	\$ -	\$ 1,022,900	\$ 1,022,900	\$ -		Apr-12	Nov-12	
	Total	27%	\$ 2,761,830	\$ 604,580	\$ 2,157,250	\$ 2,157,250	\$ -		Apr-12	Oct-13	
98600113 2010*	SPM	10%	\$ 2,053,900	\$ 500,000	\$ 1,553,900	\$ 1,553,900	\$ -	1/1/2011	Apr-13	Jun-14	12/31/2014 (extended thru 4/31/15)
	TA	2%	\$ 410,780	\$ 410,780	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 1,026,950	\$ -	\$ 1,026,950	\$ 1,026,950	\$ -		Oct-13	Jan-15	
	Cap Dev	10%	\$ 2,053,900	\$ -	\$ 2,053,900	\$ 2,053,900	\$ -		Nov-12	Jan-14	
	Total	27%	\$ 5,545,530	\$ 910,780	\$ 4,634,750	\$ 4,634,750	\$ -		Nov-12	Jan-15	
98600114 2011	SPM	10%	\$ 1,425,200	\$ 1,425,200	\$ -	\$ -	\$ -	3/5/2012	N/A	N/A	9/30/2015
	TA	2%	\$ 285,040	\$ 285,040	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 712,600	\$ -	\$ -	\$ -	\$ -		N/A	N/A	
	Cap Dev	10%	\$ 1,425,200	\$ -	\$ 1,425,200	\$ 1,425,200	\$ -		Jan-14	Sep-14	
	Total	27%	\$ 3,848,040	\$ 1,710,240	\$ 1,425,200	\$ 1,425,200	\$ -		Jan-14	Sep-14	
98600115 2012	SPM	10%	\$ 1,358,200	\$ 850,000	\$ 508,200	\$ 508,200	\$ -	5/30/2012	Jun-14	Nov-14	9/30/2016
	TA	2%	\$ 271,640	\$ 271,640	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 679,100	\$ -	\$ -	\$ -	\$ -		N/A	N/A	
	Cap Dev	10%	\$ 1,358,200	\$ -	\$ 1,358,200	\$ 1,358,200	\$ -		Sep-14	Jun-15	
	Total	27%	\$ 3,667,140	\$ 1,121,640	\$ 1,866,400	\$ 1,866,400	\$ -		Jun-14	Jun-15	
98600116 2013	SPM	10%	\$ 1,274,300	\$ -	\$ 1,274,300	\$ 1,274,300	\$ -	10/1/2013	Nov-14	Sep-15	9/30/2017
	TA	2%	\$ 254,860	\$ 254,860	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 637,150	\$ -	\$ 637,150	\$ 637,150	\$ -		Jan-15	Sep-15	
	Cap Dev	10%	\$ 1,274,300	\$ -	\$ 1,274,300	\$ 1,274,300	\$ -		Jun-15	Jan-16	
	Total	27%	\$ 3,440,610	\$ 254,860	\$ 3,185,750	\$ 3,185,750	\$ -		Nov-14	Jan-16	
98600117 2014	SPM	10%	\$ 1,353,400	\$ -	\$ 1,353,400	\$ 1,353,400	\$ -	10/1/2014	Aug-15	Sep-16	9/30/2018
	TA	2%	\$ 270,680	\$ 270,680	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 676,700	\$ -	\$ 676,700	\$ 676,700	\$ -		Dec-15	Sep-16	
	Cap Dev	10%	\$ 1,353,400	\$ -	\$ 1,353,400	\$ 1,353,400	\$ -		Jan-16	Oct-16	
	Total	27%	\$ 3,654,180	\$ 270,680	\$ 3,383,500	\$ 3,383,500	\$ -		Sep-15	Oct-16	
98600118 2015	SPM	10%	\$ 1,344,500	\$ -	\$ 1,344,500	\$ 1,344,500	\$ -	10/1/2015	Sep-16	Jul-17	9/30/2019
	TA	2%	\$ 268,900	\$ 268,900	\$ -	\$ -	\$ -		N/A	N/A	
	WHP	5%	\$ 672,250	\$ -	\$ 672,250	\$ 672,250	\$ -		Sep-16	Aug-17	
	Cap Dev	10%	\$ 1,344,500	\$ -	\$ 1,344,500	\$ 1,344,500	\$ -		Oct-16	Sep-17	
	Total	27%	\$ 3,630,150	\$ 268,900	\$ 3,361,250	\$ 3,361,250	\$ -		Sep-16	Aug-17	
98600119 2016**	SPM	10%	\$ 1,271,900	\$ -	\$ 1,271,900	\$ 852,157	\$ 419,743	10/1/2016	Jul-17	Aug-18	9/30/2020
	TA	2.4%	\$ 254,380	\$ (54,440)	\$ 308,820	\$ 308,820	\$ -		N/A	TBD	
	WHP	5%	\$ 635,950	\$ -	\$ 635,950	\$ 557,226	\$ 78,724		Aug-17	Jul-18	
	Cap Dev	10%	\$ 1,271,900	\$ -	\$ 1,271,900	\$ 1,021,619	\$ 250,281		Sep-17	Sep-18	
	Total	27.4%	\$ 3,434,130	\$ (54,440)	\$ 3,488,570	\$ 2,739,822	\$ 748,748				
98600120 2017***	SPM	10%	\$ 1,261,000	\$ (100,000)	\$ 1,361,000	\$ -	\$ 1,361,000	10/1/2017	Nov-18	Jul-19	10/1/2021
	TA	3%	\$ 252,200	\$ -	\$ 252,200	\$ 238,749	\$ 13,451		Jan-18	Jul-19	
	WHP	5%	\$ 630,500	\$ -	\$ 630,500	\$ -	\$ 630,500		Aug-18	Jul-19	
	Cap Dev	10%	\$ 1,261,000	\$ -	\$ 1,261,000	\$ -	\$ 1,261,000		Sep-18	Jul-19	
	Total	28.0%	\$ 3,404,700	\$ (100,000)	\$ 3,504,700	\$ 238,749	\$ 3,265,951				
Current Balance Totals**	SPM		\$ 16,870,000	\$ 5,623,700	\$ 1,780,743	\$ 9,565,557	\$ 1,780,743				
	TA		\$ 3,374,000	\$ 2,606,320	\$ 13,451	\$ 748,145	\$ 13,451				
	WHP		\$ 7,416,370	\$ -	\$ 709,224	\$ 5,109,826	\$ 709,224				
	Cap Dev		\$ 14,215,880	\$ -	\$ 1,511,281	\$ 12,910,219	\$ 1,511,281				
	Total		\$ 41,876,250	\$ 8,230,020	\$ 4,014,699	\$ 28,333,747	\$ 4,014,699				
98600121 2018	SPM	8.2%	\$ 1,671,100	\$ 300,800	\$ 1,370,300	\$ -	\$ 1,370,300				
	TA	2%	\$ 334,220	\$ 334,220	\$ -	\$ -	\$ -				
	WHP	5%	\$ 835,550	\$ -	\$ 835,550	\$ -	\$ 835,550				
	Cap Dev	10%	\$ 1,671,100	\$ -	\$ 1,671,100	\$ -	\$ 1,671,100				
	Total	25%	\$ 4,511,970	\$ 635,020	\$ 3,876,950	\$ -	\$ 3,876,950				
Proposed Balance Totals**	SPM		\$ 18,541,100	\$ 5,924,500	\$ 3,151,043	\$ 9,565,557	\$ 3,151,043				
	TA		\$ 3,708,220	\$ 2,940,540	\$ 13,451	\$ 748,145	\$ 13,451				
	WHP		\$ 8,251,920	\$ -	\$ 1,544,774	\$ 5,109,826	\$ 1,544,774				
	Cap Dev		\$ 15,886,980	\$ -	\$ 3,182,381	\$ 12,910,219	\$ 3,182,381				
	Total		\$ 46,388,220	\$ 8,865,040	\$ 7,891,649	\$ 28,333,747	\$ 7,891,649				

\* 2007 and 2008 workplans originally budgeted with 6% WHP and 9% Cap Dev. Revised workplans submitted to change to

5% WHP and 10% Cap Dev. \$6,084 from TA set-aside returned to loan fund.

\*\*2008 and 2010 workplans originally budgeted without full banking of TA set-aside

\*\*\*Reclaiming \$308,820 from previously reserved SSTA Set-aside funds

\*\*\*\*Reclaiming \$100,000 reserved SPM Set-aside funds.

\*\* Totals are based on expenditures through

6/30/2018

ADH ULO Balances	
Start of SFY	Balance
2012	\$10,122,205
2013	\$7,074,515
2014	\$6,678,175
2015	\$5,924,107
2016	\$4,936,016
2017	\$4,124,417
2018	\$4,528,983
2019	\$4,014,699
2020 est	\$3,749,073

	ADH Summary							
	SFY 2013 Actual Expenses	SFY 2014 Actual Expenses	SFY 2015 Actual Expenses	SFY 2016 Actual Expenses	SFY 2017 Actual Expenses	SFY 2018 Actual Expenses	SFY 2019 Projected Expenses	
SPM	\$ 1,030,564	\$ 1,365,820	\$ 1,500,458	\$ 1,538,031	\$ 1,358,160	\$ 889,022	\$ 1,586,871	
TA	\$ 8,669	\$ -	\$ -	\$ -	\$ 243,070	\$ 304,499	\$ -	
WHP	\$ 776,272	\$ 731,490	\$ 920,466	\$ 717,214	\$ 748,581	\$ 665,573	\$ 841,928	
Cap Dev	\$ 1,885,470	\$ 1,842,508	\$ 1,951,949	\$ 1,917,406	\$ 1,343,242	\$ 1,550,895	\$ 1,713,778	
Total	\$ 3,700,974	\$ 3,939,818	\$ 4,372,873	\$ 4,172,651	\$ 3,693,053	\$ 3,409,989	\$ 4,142,577	

# Salary Distribution

Engineering Technical Staff Salary Distribution (65)												
Position Number	Name	Title	APLE Plan Review Fee Fund	APWF PWS Service Fee	ASGR General Revenue	ASRB Wellhead Protection Prog	ASRC State Program Managment	ASRF Capacity Development	AWAT PWSS Program	AWHF Licensing Fee Fund	AWHP ADEQ - WHP	Grand Total
22105676	Acuff, Callie	Engineer						\$49,797.88				\$49,797.88
22105781	Alexander, Gregory	Sr. Environ Health Specialis				\$41,082.07		\$1,595.31				\$42,677.38
22106108	Arthur, Robert	Engineer Supervisor						\$6,842.42				\$6,842.42
22105843	Bird, Jason	Environ Health Specialis					\$26,420.98					\$26,420.98
22105532	Borbely-Kort, Evely	Professional Geologist				\$20,107.79					\$30,161.82	\$50,269.61
22106157	Bradshaw, Lester	Engineer Technician		\$32,339.75								\$32,339.75
22076851	Braich, Davinder	Research Assist - (Intern		\$2,108.62								\$2,108.62
22107010	Brown, Taylor	Engineer, P.E.				\$62,053.88						\$62,053.88
22076783	Burghart, Steven	Engineer, P.E.	\$52,920.70					\$26,065.62				\$78,986.32
22106127	Corder, Craig	Engineer Supervisor		\$42,723.36				\$42,723.63				\$85,446.99
22104790	Corder, Susan	ADH Environ Supv		\$61,159.15								\$61,159.15
22106202	Couch, Tyler	Environ Health Specialis				\$36,004.86						\$36,004.86
22109403	Cumnock, Allie	Environ Health Specialis							\$1,390.58			\$1,390.58
22104518	Dawson, Douglas	Environ Health Specialis						\$36,055.11				\$36,055.11
22076920	Doles, Perry	Engineer Technician		\$5,551.98								\$5,551.98
22076817	Dyer, Toby	Engineer Technician		\$11,217.07								\$11,217.07
22104664	Fitzhugh, Steven	Engineer Technician		\$34,754.43								\$34,754.43
22106817	Frogoso, Kristina	Environ Health Specialis						\$37,951.64				\$37,951.64
22105417	Gephardt, Trent	Sr. Environ Health Specialis					\$3,971.92		\$35,747.28			\$39,719.20
22106309	Gibbons, Andrew	Environ Health Specialis					\$8,343.48					\$8,343.48
22109403	Gilkey, Jason	Environ Health Specialis							\$20,716.54			\$20,716.54
22105425	Gilley, Benjamin	Adh Environ Supv				\$53,620.89						\$53,620.89
22105879	Godfrey, Lyle	ADH Engineer Chief		\$88,458.69								\$88,458.69
22076817	Gray, Gavin	Engineer Technician		\$13,692.46								\$13,692.46
22105701	Greenway, Glenn	Engineer Supervisor		\$70,337.02								\$70,337.02
22104936	Gregg, Jack	Environ Health Specialis					\$19,295.63	\$19,295.96				\$38,591.25
22105953	Harris, Robert	Engineer, P.E.						\$62,541.69				\$62,541.69
22104997	Hatfield, Marshall	Engineer, P.E.						\$63,213.29				\$63,213.29
22109218	Hilborn, Aaron	Engineer Supervisor				\$30,490.04		\$4,025.48	\$34,515.69			\$69,031.21
22106108	Hobbs, Ashley	Engineer Supervisor						\$57,699.29				\$57,699.29
22106395	Johnson, Thomas	Engineer, P.E.						\$61,906.07				\$61,906.07
22105207	Jones, Lance	ADH Engineer Chief		\$80,672.11								\$80,672.11
22106665	Jones, Mark	Environ Health Specialis							\$36,055.07			\$36,055.07
22105906	Jones, Trent	Engineer					\$1,931.61					\$1,931.61
22109519	Lee, Teresa	Engineer Supervisor		\$69,780.40								\$69,780.40
22105906	Marshall, George	Engineer					\$29,753.65					\$29,753.65
22105008	Mcmanus, Cary	Engineer Technician		\$32,339.79								\$32,339.79
22105750	Meacham, Wayne	Environ Health Specialis		\$51,079.84								\$51,079.84
22106838	Michaels, Robin	Environ Health Specialis		\$36,414.66								\$36,414.66
22105470	Mize, Charles	Engineer Technician		\$32,339.74								\$32,339.74
22106309	Morgan, Martha	Environ Health Specialis					\$37,335.11					\$37,335.11
22110689	Nelsen, Laura	Environ Health Specialis					\$36,755.10					\$36,755.10
22109829	Norwood, Richard	Environ Health Specialis				\$36,081.18						\$36,081.18
22107118	Nutt, Andrew	ADH Environ Supv						\$71,681.91				\$71,681.91
22163676	Osmon, Adam	Engineer						\$34,320.86				\$34,320.86
22163678	Parker, Adam	Engineer	\$24,945.36				\$24,945.36					\$49,890.71
22105615	Prioleau, Alicia	Environ Health Specialis						\$36,055.08				\$36,055.08
22106342	Reaves, Robert	Engineer				\$48,290.24		\$1,507.66				\$49,797.90
22106024	Roberts, Christoph	Engineer, P.E.						\$62,822.09				\$62,822.09
22110513	Robertson, Clay	Engineer Technician		\$32,387.56								\$32,387.56
22106823	Routh, Darcia	Geology Supervisor				\$62,614.72						\$62,614.72
22105580	Saunders, Gerald	Environ Health Specialis							\$41,035.34			\$41,035.34
22163677	Stacy, William	Engineer		\$49,797.90								\$49,797.90
22105489	Starling, Stanley	Environ Health Specialis							\$37,934.33			\$37,934.33
22105224	Stone, Jeffery	ADH Dir Engineering		\$93,173.68								\$93,173.68
22105003	Talley, Christopher	Environ Health Specialis					\$36,100.69					\$36,100.69
22105585	Taylor, Dennis	Engineer Supervisor							\$69,503.49			\$69,503.49
22111755	Thompson, Raymo	Engineer Supervisor			\$85,446.91							\$85,446.91
22110035	Welytok, Victoria	Engineer					\$55,216.07					\$55,216.07
22111755	Wilson, Jack	Environ Health Specialis							\$39,894.31			\$39,894.31
22076820	Yang, Johnny	Engineer Technician				\$5,315.74						\$5,315.74
22106189	Youngblood, Steve	Engineer, P.E.						\$62,663.63				\$62,663.63
<b>Total</b>			<b>\$77,866.06</b>	<b>\$840,328.21</b>	<b>\$85,446.91</b>	<b>\$395,661.41</b>	<b>\$280,069.59</b>	<b>\$675,551.33</b>	<b>\$380,005.92</b>	<b>\$0.00</b>	<b>\$30,161.82</b>	<b>\$2,765,090.91</b>

**Engineering Admin Salary Distribution (11)**

Position Number	Name	Title	APLE Plan Review Fee Fund	APWF PWS Service Fee	ASGR General Revenue	ASRB Wellhead Protection Prog	ASRC State Program Management	ASRF Capacity Development	AWAT PWSS Program	AWHF Licensing Fee Fund	AWHP ADEQ - WHP	Grand Total
22105926	Charbonneau, Helen	Administrative Spec III						\$18,525.28	\$12,350.18			\$30,875.46
22105960	Gaston, Cathy	Administrative Analyst		\$39,251.21								\$39,251.21
22105953	Hampton, Ida	Administrative Spec III								\$32,666.55		\$32,666.55
22105622	Johnson, Anastasia	Administrative Spec II						\$25,963.60				\$25,963.60
22106262	Lambert, Marcia	Administrative Spec II		\$27,470.36		\$6,226.62	\$2,930.17					\$36,627.15
22111151	Petroff, Rosalyn	Administrative Spec III			\$36,692.31							\$36,692.31
22105983	Rochelle, Linda	Administrative Spec II		\$21,153.81								\$21,153.81
22104617	Ross, Shunte'	Administrative Spec II		\$25,872.11								\$25,872.11
22104842	Shirley, Kelly	Administrative Analyst						\$14,746.63				\$14,746.63
22111547	Summons, Sharon	Human Res Program Rep		\$39,151.22								\$39,151.22
22104661	Trimble, Mary	Budget Analyst		\$54,753.96								\$54,753.96
<b>Total</b>			<b>\$0.00</b>	<b>\$207,652.67</b>	<b>\$36,692.31</b>	<b>\$6,226.62</b>	<b>\$2,930.17</b>	<b>\$18,525.28</b>	<b>\$53,060.41</b>	<b>\$32,666.55</b>	<b>\$0.00</b>	<b>\$357,754.01</b>

**Engineering IT Salary Distribution (7)**

Position Number	Name	Title	APLE Plan Review Fee Fund	APWF PWS Service Fee	ASGR General Revenue	ASRB Wellhead Protection Prog	ASRC State Program Management	ASRF Capacity Development	AWAT PWSS Program	AWHF Licensing Fee Fund	AWHP ADEQ - WHP	Grand Total
22076818	Beard, Matthew	Engineer Technician							\$34,005.02			\$34,005.02
22109788	Bradley, David	Software Support Analyst		\$53,761.46			\$17,920.49					\$71,681.95
22107058	Hill, Steven	Geologist				\$2,623.36		\$49,843.93				\$52,467.29
22104509	Mance, Margaret	Engineer Technician					\$35,106.80					\$35,106.80
22105231	Thompson, Andrew	Systems Analyst						\$57,650.29				\$57,650.29
22105749	Treadway, Gregory	Computer Support Coord		\$58,192.66								\$58,192.66
22111469	Veluvolu, Ramesh	Software Support Analyst		\$51,992.12								\$51,992.12
<b>Total</b>			<b>\$0.00</b>	<b>\$163,946.24</b>	<b>\$0.00</b>	<b>\$2,623.36</b>	<b>\$53,027.29</b>	<b>\$49,843.93</b>	<b>\$91,655.31</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$361,096.13</b>

**PHL Salaries in support of Drinking Water Program (43)**

Position Number	Name	Title	APLE Plan Review Fee Fund	APWF PWS Service Fee	ASGR General Revenue	ASRB Wellhead Protection Prog	ASRC State Program Management	ASRF Capacity Development	AWAT PWSS Program	AWHF Licensing Fee Fund	AWHP ADEQ - WHP	Grand Total
22106646	Austin, Indya	Laboratory Technician		\$28,810.41								\$28,810.41
22106087	Beeson, Travis	Sr. Chemist			\$63,044.65							\$63,044.65
22104646	Biddle, Patricia	Sr. Microbiologist		\$44,817.33								\$44,817.33
22109071	Blaylock, Karen	Budget Manager			\$34,588.11							\$34,588.11
22105874	Bonner, Errol	Chemist			\$60,425.81							\$60,425.81
22107017	Clark, Joey	Chemist			\$15,439.96							\$15,439.96
22105303	Colbert, Dionne	Sr. Chemist		\$62,944.90								\$62,944.90
22110210	Cunningham, Gregor	Warehouse Specialist			\$28,864.54							\$28,864.54
22076816	Deck, Teresa	Sr. Chemist			\$48,721.80							\$48,721.80
22105147	Donnerson, Carolyn	Warehouse Specialist		\$28,885.64								\$28,885.64
22106040	Duke, David	Sr. Chemist		\$63,044.67								\$63,044.67
22105976	Emerson, Elizabeth	ADH Laboratory Manager			\$56,553.95							\$56,553.95
22106646	Enlow, Karron	Laboratory Technician		\$17,966.86								\$17,966.86
22106311	Fedora, Evgenya	ADH Laboratory Manager			\$13,521.27							\$13,521.27
22105402	Ferguson, Dorothy	ADH Laboratory Manager		\$71,681.98								\$71,681.98
22110868	Feres, Mary	Chemist		\$35,685.28								\$35,685.28
22106716	Gulley, Frederick	Laboratory Technician		\$28,828.19								\$28,828.19
22106766	Gurley, Catherine	Microbiologist		\$7,898.22								\$7,898.22
22106474	Henderson, Terri	Sr. Chemist		\$63,044.69								\$63,044.69
22106336	Hudgin, Ryan	Laboratory Technician		\$28,994.53								\$28,994.53
22105299	Jefferson, Benjamin	Sr. Chemist		\$64,179.77								\$64,179.77
22106712	Jones, Marcus	Laboratory Technician			\$29,704.97							\$29,704.97
22105521	Jordan, Alindria	ADH Laboratory Manager		\$51,675.25								\$51,675.25
22106175	Jordan, Erika	Administrative Specialist II			\$24,936.79							\$24,936.79
22107017	Linz, Rhonda	Chemist			\$4,654.61							\$4,654.61
22105048	Madden, Fanchon	Chemist		\$18,463.29								\$18,463.29
22106311	Manor, Delois	ADH Laboratory Manager			\$65,309.55							\$65,309.55
22106449	Mcgee, Charles	Information Systems Coor		\$35,952.38								\$35,952.38
22111353	Morris, Anderson	Senior Chemist		\$44,670.81								\$44,670.81
22105123	Owen, James	Sr. Microbiologist		\$63,044.63								\$63,044.63
22105462	Parrish, Mark	Sr. Chemist		\$63,044.68								\$63,044.68
22107121	Poposky, Louis	Sr. Chemist			\$63,044.70							\$63,044.70
22106266	Randolph, Debra	Sr. Chemist		\$46,118.26								\$46,118.26
22107000	Rankin, Steven	Sr. Chemist		\$63,044.68								\$63,044.68
22109380	Rowlett, Gary	ADH Laboratory Manager			\$71,682.11							\$71,682.11
22105255	Sanders, Saluta	Chemist		\$40,028.72								\$40,028.72
22105422	Sheridan, Gregory	Sr. Chemist		\$62,944.87								\$62,944.87
22106479	Smith, Sandra	Laboratory Technician		\$29,557.88								\$29,557.88
22104834	Stetzer, Marye	Administrative Specialist I			\$17,548.93							\$17,548.93
22104860	Threet, Jimmy	Chemist		\$40,161.92								\$40,161.92
22105336	Troup, Timothy	ADH Laboratory Manager		\$71,681.98								\$71,681.98
22105905	Wilson, Elizabeth	Microbiologist			\$40,078.82							\$40,078.82
22104906	Wilson, Mark	Sr. Chemist		\$49,972.19								\$49,972.19
22106766	Wrightner, Rakara	Microbiologist		\$18,463.25								\$18,463.25
22076782	Wylie, Susan	ADH Assoc Cent Dir Mg-Ops			\$35,294.07							\$35,294.07
<b>Total</b>				<b>\$1,245,607.26</b>	<b>\$673,414.65</b>							<b>\$1,919,021.91</b>

**ADH - ATTACHMENT B**

SUMMARY OF  
TRAVEL REIMBURSEMENTS

## Travel Reimbursements Summary

Position #	Name	CH 02	CH 09	Internal Order Code	Description
22105676	Acuff, Callie	\$141.54		ASRF0016	District Meeting
22105676	Acuff, Callie		\$277.80	ASRF0016	AWW&WEA conference
22105676	Acuff, Callie	\$137.16		ASRF0016	Ozark Mtn Tech Assist.
22105843	Bird, Jason	\$117.67		ASRF0016	District 1 AWWA & WEA Meeting
22105843	Bird, Jason	\$128.51		ASRF0016	Sanitary survey and District Meeting
22105843	Bird, Jason	\$191.92		ASRF0016	ADH Presentation/License Exam Proctor
22105843	Bird, Jason		\$243.75	ASRF0016	AWW&WEA conference
22077651	Braich, Davinder	\$240.35		ASRF0016	Equipment Check Calibration
22076783	Burghart, Steven	\$15.00		ASRF0016	Central Arkansas District Meeting
22076783	Burghart, Steven	\$15.00		ASRF0016	District Meeting
22076783	Burghart, Steven	\$15.00		ASRF0016	District Meeting
22076783	Burghart, Steven	\$15.00		ASRF0016	District Meeting
22076783	Burghart, Steven	\$15.00		ASRF0016	District Meeting
22106127	Corder, Craig	\$128.56		ASRF0015	Tank Study
22106127	Corder, Craig	\$521.76		ASRF0016	CPE
22106127	Corder, Craig	\$542.50		ASRF0016	AWOP quarterly Meeting
22106127	Corder, Craig	\$145.15		ASRF0016	Ozark Mtn Tech Assist.
22106127	Corder, Craig	\$132.45		ASRF0016	HDC ECC
22106202	Couch, Tyler	\$191.25		ASRB0015	wellhead deficiency study
22106202	Couch, Tyler		\$914.03	ASRB0016	Ark. GIS Users Forum
22106202	Couch, Tyler	\$146.84		ASRB0016	PSOC Inventory Phase II report
22104518	Dawson, Doug	\$151.22		ASRF0015	City of Bentonville
22104518	Dawson, Doug	\$133.24		ASRF0016	District Meeting
22076920	Doles, Perry	\$127.47		ASRF0015	Well Deficiency Survey
22076920	Doles, Perry	\$272.07		ASRF0015	GIS Data Collection
22106817	Frogoso, Kristina	\$105.22		ASRF0015	Trident Training
22106817	Frogoso, Kristina	\$122.09		ASRF0015	Sanitary Survey
22106817	Frogoso, Kristina	\$492.58		ASRF0016	CPE
22106817	Frogoso, Kristina	\$126.96		ASRF0016	Bacti
22106817	Frogoso, Kristina	\$574.41		ASRF0016	AWOP quarterly Meeting
22105417	Gephardt, Trent	\$152.02		ASRF0015	District Meeting/compliance course
22105417	Gephardt, Trent	\$125.84		ASRF0015	District Meeting/compliance course
22109403	Gilkey, Jason	\$15.00		ASRF0016	District Meeting
22109403	Gilkey, Jason	\$18.00		ASRF0016	District Meeting
22105425	Gilley, Benjamin		\$803.31	ASRB0016	Ark. GIS Users Forum
22105425	Gilley, Benjamin	\$104.92		ASRB0016	forestry & drinking water
22105425	Gilley, Benjamin	\$145.29		ASRB0016	PWS 814 PSOC inventory
22169346	Godfrey, Lyle		\$1,533.00	ASRC0016	ASDWA Conference
22169346	Godfrey, Lyle		\$1,533.00	ASRC0016	ASDWA Conference
22169346	Godfrey, Lyle	\$452.34		ASRC0016	EPA 5 state Meeting
22169346	Godfrey, Lyle		\$1,907.38	ASRC0016	ASDWA Meeting
22104936	Gregg, Jack	\$25.00		ASRF0015	District Meeting
22104936	Gregg, Jack	\$14.11		ASRF0016	District Meeting
22104936	Gregg, Jack	\$17.13		ASRF0016	District Meeting
22104936	Gregg, Jack	\$14.27		ASRF0016	District Meeting
22104936	Gregg, Jack	\$20.55		ASRF0016	District Meeting
22104936	Gregg, Jack	\$18.18		ASRF0016	District Meeting
22104936	Gregg, Jack	\$12.19		ASRF0016	District Meeting
22104936	Gregg, Jack	\$15.00		ASRF0016	District Meeting
22104997	Harris, Robert	\$14.88		ASRF0015	District Meeting
22104997	Harris, Robert	\$10.34		ASRF0015	District Meeting
22104997	Harris, Robert	\$7.07		ASRF0016	District Meeting
22104997	Harris, Robert	\$18.40		ASRF0016	District Meeting
22104997	Harris, Robert	\$10.84		ASRF0016	District Meeting
22104997	Harris, Robert	\$18.23		ASRF0016	District Meeting
22104604	Hilborn, Aaron	\$1,098.73		ASRF0015	EPA Small Systems Workshop
22104604	Hilborn, Aaron		\$1,544.14	ASRF0016	ASDWA Conference
22104604	Hilborn, Aaron		\$1,228.69	ASRB0016	Groundwater Trust Conference

Position #	Name	CH 02	CH 09	Internal Order Code	Description
22106395	Johnson, Thomas	\$17.83		ASRF0015	CCCP Surveys BPAA Conference
22106395	Johnson, Thomas	\$105.77		ASRF0016	District Meeting
22106665	Jones, Mark	\$54.82		ASRF0015	Sanitary Survey/compliance course
22106665	Jones, Mark	\$118.00		ASRF0016	Proctor exam
22106665	Jones, Mark	\$123.03		ASRF0016	Proctor exam
22106665	Jones, Mark	\$61.80		ASRF0016	Compliance course
22106665	Jones, Mark	\$17.11		ASRF0016	District Meeting
22105532	Kort, Evelyn		\$1,110.61	ASRB0016	Groundwater Trust Conference
22105532	Kort, Evelyn		\$1,752.08	ASRB0016	National Groundwater Conference
22109519	Lee, Teresa	\$483.76		ASRC0016	EPA 5 State Meeting
22109519	Lee, Teresa	\$121.57		ASRF0016	Stem Fair
22105906	Marshall, George		\$256.63	ASRC0016	ARWA Convention
22105906	Marshall, George	\$16.88		ASRF0016	District Meeting
22105750	Meacham, Conway	\$15.00		ASRF0016	District Meeting
22105750	Meacham, Conway	\$15.00		ASRF0016	District Meeting
22105750	Meacham, Conway	\$15.00		ASRF0016	District Meeting
22105750	Meacham, Conway	\$15.00		ASRF0016	District Meeting
22109829	Norwood, Richard	\$162.56		ASRB0015	Wellhead deficiency study
22109829	Norwood, Richard		\$933.44	ASRB0016	Ark. GIS Users Forum
22109829	Norwood, Richard	\$102.51		ASRB0016	forestry & drinking water
22109829	Norwood, Richard	\$145.86		ASRB0016	PSOC Survey (Salem)
22107118	Nutt, Martin		\$1,361.65	ASRF0015	AWWMA Annual Conference
22107118	Nutt, Martin	\$108.59		ASRF0015	AETA Train the Trainer Course
22107118	Nutt, Martin		\$420.12	ASRF0015	ARWA Convention
22107118	Nutt, Martin	\$147.94		ASRF0016	AR Municipal League Conference
22107118	Nutt, Martin		\$1,791.99	ASRF0016	Assn Boards of Certification Conf.
22107118	Nutt, Martin	\$252.62		ASRF0016	Compliance course
22107118	Nutt, Martin		\$624.44	ASRF0016	AWW&WEA conference
22163676	Osman, Adam	\$129.30		ASRF0015	tank study
22163676	Osman, Adam	\$104.03		ASRF0015	trident workshop
22076820	Parker, Adam	\$72.99		ASRF0015	District Meeting
22076820	Parker, Adam	\$138.51		ASRF0015	Water Op Licensing
22076820	Parker, Adam	\$131.22		ASRF0015	Tank inspections
22076820	Parker, Adam	\$147.19		ASRF0016	Wtr Op Licensing & District Meeting
22076820	Parker, Adam	\$128.56		ASRF0016	District Meeting
22076820	Parker, Adam	\$131.10		ASRF0016	District Meeting
22076820	Parker, Adam	\$116.34		ASRF0016	Tank Inspections
22076820	Parker, Adam	\$131.65		ASRF0016	Pre-CPE Meeting
22105615	Prioleau, Alicia	\$131.33		ASRF0015	Compliance course
22105615	Prioleau, Alicia	\$136.58		ASRF0015	Compliance course
22105615	Prioleau, Alicia	\$135.03		ASRF0015	Compliance course
22105615	Prioleau, Alicia		\$432.46	ASRF0016	ARWA Convention
22105615	Prioleau, Alicia	\$225.05		ASRF0016	Compliance course
22105615	Prioleau, Alicia	\$115.76		ASRF0016	Compliance course
22105615	Prioleau, Alicia	\$133.68		ASRF0016	Compliance course
22105615	Prioleau, Alicia	\$147.71		ASRF0016	ADH Compliance Course Training
22106342	Reaves, Robert	\$22.03		ASRF0015	District Meeting
22106342	Reaves, Robert	\$14.11		ASRF0016	District Meeting
22106342	Reaves, Robert	\$14.27		ASRF0016	District Meeting
22106342	Reaves, Robert	\$21.33		ASRF0016	District Meeting
22106342	Reaves, Robert	\$21.47		ASRF0016	District Meeting
22106342	Reaves, Robert	\$18.12		ASRF0016	District Meeting
22106342	Reaves, Robert	\$20.00		ASRF0016	District Meeting
22106024	Roberts, Chris	\$19.04		ASRF0015	District Meeting
22106024	Roberts, Chris	\$571.72		ASRF0016	CPE
22106024	Roberts, Chris	\$155.30		ASRF0016	District Meeting
22106823	Routh, Darcia	\$107.46		ASRB0016	forestry & drinking water
22106823	Routh, Darcia		\$1,804.33	ASRB0016	National Groundwater Conference
22106823	Routh, Darcia	\$141.88		ASRB0016	PSOC Survey (Salem)
22106823	Routh, Darcia	\$12.00		ASRB0016	GSA So Central Section Meeting

Position #	Name	CH 02	CH 09	Internal Order Code	Description
22105580	Saunders, Gerald	\$20.00		ASRF0016	District Meeting
22105580	Saunders, Gerald	\$20.00		ASRF0016	District Meeting
22105580	Saunders, Gerald	\$20.00		ASRF0016	District Meeting
22163677	Stacy, William	\$508.50		ASRF0016	CPE
22163677	Stacy, William	\$20.00		ASRF0016	District Meeting
22163677	Stacy, William	\$20.00		ASRF0016	District Meeting
22105489	Starling, Stan	\$19.07		ASRF0015	District Meeting
22105489	Starling, Stan	\$19.04		ASRF0015	District Meeting
22105489	Starling, Stan	\$85.11		ASRF0015	Sanitary Survey/Operator Exam
22105489	Starling, Stan	\$19.04		ASRF0015	District Meeting
22105489	Starling, Stan	\$171.33		ASRF0016	Sanitary Survey
22105489	Starling, Stan	\$19.04		ASRF0016	District Meeting
22105489	Starling, Stan	\$19.04		ASRF0016	District Meeting
22105489	Starling, Stan	\$73.53		ASRF0016	District Meeting/exam proctor
22105489	Starling, Stan	\$106.37		ASRF0016	District Meeting/exam proctor
22105489	Starling, Stan	\$65.22		ASRF0016	District Meeting
22105224	Stone, Jeff	\$439.13		ASRC0016	EPA 5 State Meeting
22105224	Stone, Jeff		\$1,703.86	ASRC0016	ASDWA Meeting
22109951	Talley, Chris	\$16.01		ASRF0015	District Meeting
22109951	Talley, Chris	\$16.01		ASRF0016	District Meeting
22109951	Talley, Chris	\$133.63		ASRF0016	Wtr Op Licensing exam
22109951	Talley, Chris	\$16.01		ASRF0016	District Meeting
22109951	Talley, Chris	\$17.66		ASRF0016	District Meeting
22109951	Talley, Chris	\$134.83		ASRF0016	Water Op Licensing
22105003	Taylor, Dennis	\$17.85		ASRF0016	District Meeting
22076820	Yang , Johnny	\$269.64		ASRF0015	Sanitary Survey/ECC
22076820	Yang , Johnny	\$255.32		ASRF0015	Sanitary Survey
22076820	Yang , Johnny	\$374.69		ASRF0015	GIS Wellhead Protection
22076820	Yang , Johnny	\$262.77		ASRF0015	GIS Wellhead Protection
22106189	Youngblood, Stephen	\$15.00		ASRF0016	District Meeting